

**NEAR EAST UNIVERSITY**

**Faculty of Engineering**

**Department of Computer Engineering**

**DETAILED TELEPHONE BILL SYSTEM**

**Graduation Project  
Com- 400**

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Thanks tom all friend and school mates who joined us and shared our work sportyly.

## ABSTRACT

In this century technology is in everywhere. Specially computer takes a important place for the people. They are using to develop their business , experience , in the school , manage thinks .....

This project is a complete billing system program for telecom managements, which covers all the services necessary for the billing, such as customer related information, encrypt or decrypt fo bill information, send and take bill information over internet etc.

I made this project on Visual Basic 6.0 which is the most powerfull Visual Programming Language in the world.

## EXPLANATION OF FIGURES

2.1. Splash Screen (frmSplash)	5
2.2. Login to Program Window (frmLogin)	7
2.3. Main window (frmMain)	9
2.4. Bill Menu	10
2.4.1. Customer Details (frmCustomer)	11
2.4.2. Bill Detail (frmBill)	12
2.4.3. Bill Calculation (frmCalculation)	13
2.5. Account Menu	16
2.5.1. Report/Export File (frmReportFile)	17
2.5.2. Add New/Print (frmNewPrint)	18
2.6. Exit Menu	19
2.7.1. About (frmAbout)	20
2.7.2. Help (frmHelp)	21
2.7.3. Exit (frmExit)	22

# TABLE OF CONTENTS

<b>ACKNOWLEDGEMENT</b>	i
<b>ABSTRACT</b>	ii
<b>TABLE OF CONTENTS</b>	iii
<b>INTRODUCTION</b>	1
<b>1. MOBILE PHONE BILLING SYSTEM PROGRAM CONTENT</b>	4
<b>1.1. Database Content – MsAccess2002</b>	4
1.1.1. dbbilling.mdb database	5
1.1.1.1. tblebill table	5
1.1.1.2. transaction table	6
1.1.2. Pas.mdb database	6
1.1.2.1. admin table	6
1.1.2.2. user table	6
1.1.3. gsmno.mdb database	6
1.1.3.1. gsm table	6
1.1.4. BILLING.mdb database	7
1.1.4.1. billinfo table	7
<b>2.EXPLANATION OF FORMS</b>	8
<b>2.1. Splash Screen (frmSplash.frm)</b>	8
<b>2.2 Log-in to Program Window (frmpass.frm)</b>	8
<b>2.3. Main window (MDIForm1.frm)</b>	9
2.3.1. File Menu	10
2.3.1.1. Customer Record (frmbilling.frm )	10
2.3.1.2. Talk Detail (frmall.frm)	12
2.3.1.3. Dis/Connection ( frmdisconnect.frm )	15
2.3.2. Database Menu	16
2.3.2.1. Import / Export File ( frmimpexp.frm )	16
2.3.2.2. Encrypt / Decrypt (frmencdec.frm)	18
2.3.3. Send Bill Menu	19
2.3.3.1. Sender (frmSender.frm)	19
2.3.4. File Maintenance Menu	19
2.3.4.1. Make Backup (frmbck.frm)	19



2.3.4.2. Change Password (Change.frm)	20
2.3.4.3. Administrator Area ( frmadmin.frm)	20
2.3.5. Utilities Menu	21
2.3.5.1. Calculator	21
2.3.6 Logoff Menu	21
2.3.6. Windows Menu	21
2.3.7. About	21
2.4. Delete window (frmdelete.frm)	22
CONCLUSION	23
REFERENCES	24
APPENDIX A	25

## INTRODUCTION

Now a day's the computer science both hardware and software is being developed over the previous years, programming is always providing the scientists by a systematic development. In my project we did construct special programmed related to billing system for telecom management. By using a computer every things become easier then before and if developed the human in all it's range, now we can do what every want in a short period.

In begining of the project I look about my topics on Internet . I found some product and archive about billing system which also include my topics. After search, I collect my resource for my program which will be use in program. I carry about one of the rule for my program ,that is to make it *user friendly*.

In my project there are many functions which helps to manage billing system. Some of functions are customer information track , talk detail track , billing information track and service track.

In billing part, bill amount of each customer must be calculated automatically. First total speak time must be calculated, then program will calculate these total time(second) to amount to how many subscriber's meter. Then result will multiply by subscriber's meter price so we will calculate gross bill amount. Then we will have to calculate tax amount; for this operation program will select tax rate which is saved in customer record for each customer, this result will be added fixed fee of company automatically, finally gross bill amount added tax and fixed fee.

Sample Calculation;

Datas;

Total Speak Time(minute) = TST(min)

Subscriber's Meter Time = SMT(sec)

Subscriber's Meter Price = SMP

Tax Rate

Fixed Fee

Process;

First;

$TST(min) / 60$  "This process gives Total Speak Time in second ( TST ( sec ) )"

Second;

TST(sec) / SMT(sec) “ This process gives amount of Subscriber’s Meter( SMA )”

Third;

SMA \* SMP “ This process gives gross bill amount ( GBA )”

Fourth;

GBA \* % Tax Rate “ This procee gives total tax amount ( TTA )”

Fifth;

TTA + GBA + Fixed Fee “ This process gives toal amount of bill ”

General formula;

$$\text{Tax} = (( ( \text{TST} / 60 ) / \text{SMT} ) * \text{SMP} ) * \% \text{ Tax Rate}$$

$$\text{Bill Amount} = (( ( \text{TST} / 60 ) / \text{SMT} ) * \text{SMP} ) + \text{Tax} + \text{Fixed Fee}$$

In my program customer’s bill information to recording to text file (bill.txt). this text file included Customer GSM No, name, surname, due date, bill amount, customer’s status sections. This text file must be encrypted before send to bank, it is necessary for bill information security. This encrypted text file to be sends to bank in regular time periods in a month. Text file to send via Internet, absolutely bank have to has Receiver Program, this small program is necessary to accept to file transfer between GSM companty and bank. When the bank to send back this text file my Receiver program will be saved the text file in setup directory of Mobile Phone Billing System Program. This incoming encrypted text file have to decoded. This decode process are going to make by releated part of my program. Decrypted text file’s content will save in main database of Mobile Phone Billing System Program. Thus which customer paid or not paid own bill we can see and we can do necessary operation about customer phone account. Who did not pay own bill program have to send caution message to releated customer. By this way all customer account has to be controlled.

I used one of the powerfull Object Oriented programming language which is Visual Basic 6.0 .

Visual Basic is a much-enhanced version of the BASIC programming language and the BASIC Integrated Development Environment (IDE). The bottom line of the enhancement is the VB can create Windows programs where as BASIC could only create DOS programs so the modifications are **very** major, but the idea holds true that Visual Basic is BASIC for Windows.



One of the many significant improvements is that VB provides massive support for easily creating the user interface to your applications. This is accomplished within the VB Integrated Development Environment (IDE), in which you use a mouse to "draw" your application and use the keyboard to type in the code that is to be executed. When I write a VB program, I almost always create the user interface "shell". This approach, made so simple by the VB IDE, allows me to evaluate how the user will interact with the program. It especially is beneficial in that you can demonstrate to the users just exactly what they will see.

The single largest effect on coding that VB introduced was the concept of an event-driven programming model. VB performs that function for you, and in fact, the **only** time code will execute in VB is in response to such an event!

And finally, the other major concept that VB has incorporated is the concept of **objects**. Objects provides a way to link together both code and data into a "package" in such a way as to make handling and saving the code/data more intuitively. VB forms are objects, menus are objects, and the so are the intrinsic VB controls.

VB has also provided a wide variety of built-in code that programmers once had to handle themselves. Of most significance is the built-in database handling features of VB. It is generally accepted that over half of all VB applications are written to handle databases! You'll find the built-in database features of VB to be very powerful, and that you can tap into them at whatever level of programming skill you possess.

A second area in which VB has begun to provide built-in support is that of Internet access. The VB features are still maturing, but with the tools available we can create very useful applications.



# **1.MOBILE PHONE BILLING SYSTEM PROGRAM CONTENT**

Before starting the explanation of program , I want to list below content in my Mobile Phone Billing System .

1. Database Content – MSAccess 2002
2. Explanation of Forms which used in Mobile Phone Billing System.

## **1.1 Database Content – MsAccess2002**

Microsoft Access is a database application that may be installed alone or as part of Microsoft Office.

A database is a collection of information stored somewhere for easy organization and exploration. Databases are used in various situations such as keeping a record of friends, registering employees job attendance, counting the number of students in a classroom and keeping a record of their grades. This means that we have been using databases all our life.

I learnt how to use the computer to create and exploit databases. I used Microsoft Access. Learning how to use Microsoft Access and some programming is just a matter of applying your already tremendous knowledge on information storage and retrieval. Microsoft Access is a software product used for desktop database applications. You can use it for personal stuff, for home, or for your business/company

MS Access is actually an enterprise level programming toolkit that uses the Visual Basic Language for its code base. MS Access it is designed to integrate with other enterprise level database systems as well as the Jet Database System (that is included with MS Access for free) as one possible backend solution.

Access is also a powerful Windows database application probably the best end-user /developer product ever written. Microsoft Access brings the productivity of database management to the usability and consistency of Microsoft Windows. Because both Windows and Access are from Microsoft , the two products work well together. Access runs on Windows 95, Windows 98, Windows ME, Windows 2000 or Windows NT platforms, so all the advantages of Windows are aviable in Access. You can cut, copy and paste from any Windows application to and from Access.

Database help us to store our information in diffirent ways. There are many database programming language like Fox – Pro, Paradox , Dbase , Oracle and soo on. In my Program I used the MsAccess 2002. This program help me to store my data in easy

and secure way. In MsAccess we can create tables, query , forms , moduls and many things.

Mobile Phone Billing System program include 4 database and 6 tables below :

#### 1.1.1. Database : dbbilling.mdb

Tables :

- 1.1.1.1. tblebill
- 1.1.1.2 transaction

Details:

##### 1.1.1.1. tblebill Table :

Field Name	Data Type	Description
givenno	Text	Gsm No given by the program automatically to the customer
surName	Text	Customer Surname
First_Name	Text	Customer Firstname
Due_Date	Text	Last day for pay Bill amount
Bill	Text	Bill amount
Status	Text	Customer status(connected or disconnected)
Service_Address	Text	Customer home address
totalspktime	Text	Total speak time between chosen two date
tel1	Text	Customer telephone
Tel2	Text	Customer telephone
familyName	Text	Customer familyname
jobadress	Text	Customer job address
Billing_Period1	Text	Start date of billing period
Billing_Period2	Text	End date of billing period
Subscriber_Meter_Time	Text	One subscriber meter's time
Subscriber_Meter_Price	Text	One subscriber meter's price
tax	Text	Taxes
fixedf	Text	Fixed fee



#### 1.1.1.2. transaction Table :

Field Name	Data Type	Description
billID	AutoNumber	Bill ID number it gives by the program automatically
givenno	Text	Gsm No make relation beetween transaction table and tblebill
tlkdate	Text	When the talks are made
tlktimesn	Text	Talk time (sec)
who	Text	Which number customer call

#### 1.1.2. Database : Pas.mdb

Tables:

1.1.2.1. admin

1.1.2.2. user

Details

##### 1.1.2.1. admin Table :

Field Name	Data Type	Description
username	Text	Administrator name
password	Text	Administrator password

##### 1.1.2.2. user Table

Field Name	Data Type	Description
name	Text	User name
address	Text	User address
phone	Number	User Phone
Userid	Text	User ID
password	Text	User password

#### 1.1.3. Database : gsmno.mdb

Tables:

1.1.3.1. gsm

Details

##### 1.1.3.1. gsm Table :

Field Name	Data Type	Description
no	Text	This fields gives me which number have to give to the new customer



#### 1.1.4. Database BILLING.mdb

This database is keeping bill information which is returned from bank..

Tables:

##### 1.1.4.1. billinfo

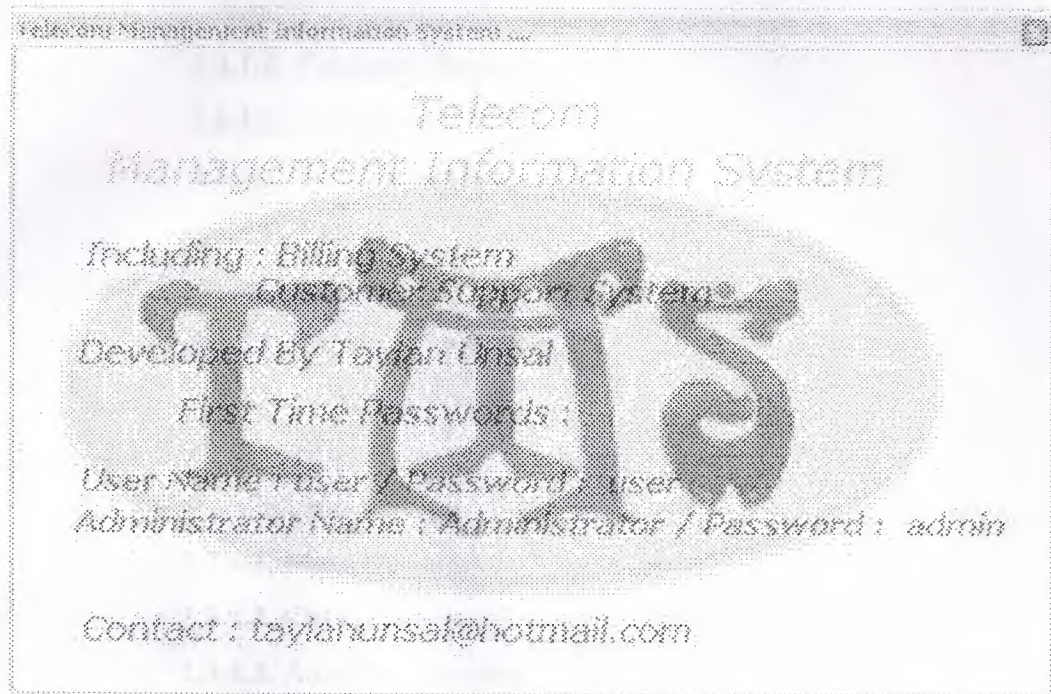
Details

##### 1.1.4.1. billinfo Table :

Field Name	Data Type	Description
RefID	AutoNumber	Referance ID
sid	Text	Customer GSM No
sname	Text	Customer surname
name	Text	Customer name
duedate	Text	Last day for pay Bill amount
bill	Text	Bill amount
status	Text	Customer status(Connected or Disconnect)

## 2. EXPLANATION OF FORMS

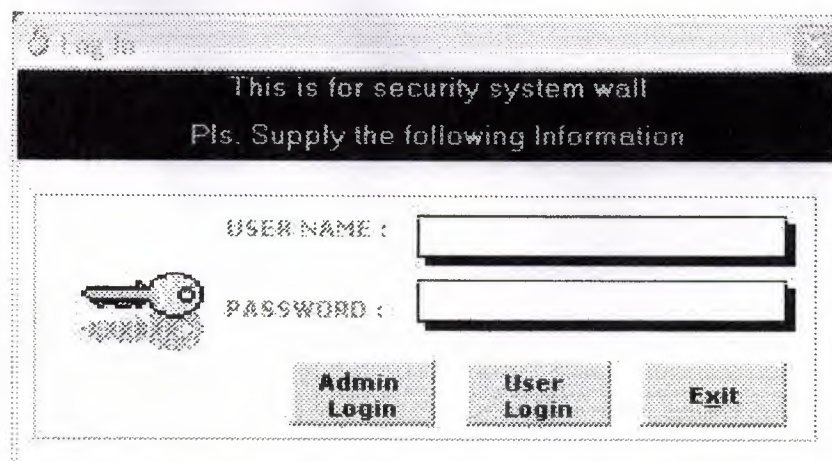
### 2.1. Splash Screen (frmSplash.frm)



**Figure 2.1. Splash Screen Window**

### 2.2 Log-in to Program Window (frmpass.frm)

In this form user must type his/her Log-in Name and Password to enter the Mobile Phone Billing System program. If the log-in information is wrong, user can not enter to the Mobile Phone Billing System program. By this way program is not allowing for everyone to use, only staff can use Mobile Phone Billing System program. You can see the view of Log-in to program ( **Figure 2.2** ).



**Figure 2.2. Log-in to Program Window**

### **2.3. Main window (MDIForm1.frm):**

After passing the Log-in Window, user will see the Main Window (**Figure 2.3**).

It is including all part of menu below the list:

#### **2.3.1. File Menu**

**2.3.1.1. Customer Record**

**2.3.1.2. Talk Detail**

**2.3.1.3. Dis/Connection**

**2.3.1.4. Exit**

#### **2.3.2. Database Menu**

**2.3.2.1. Import / Export File**

**2.3.2.2. Enrypt / Decrypt**

#### **2.3.3. Send Bill Menu**

#### **2.3.4. File Maintenance Menu**

**2.3.4.1. Make Backup**

**2.3.4.2. Change Password**

**2.3.4.3. Administrator Area**

#### **2.3.5. Utilities**

**2.3.5.1. Calculator**

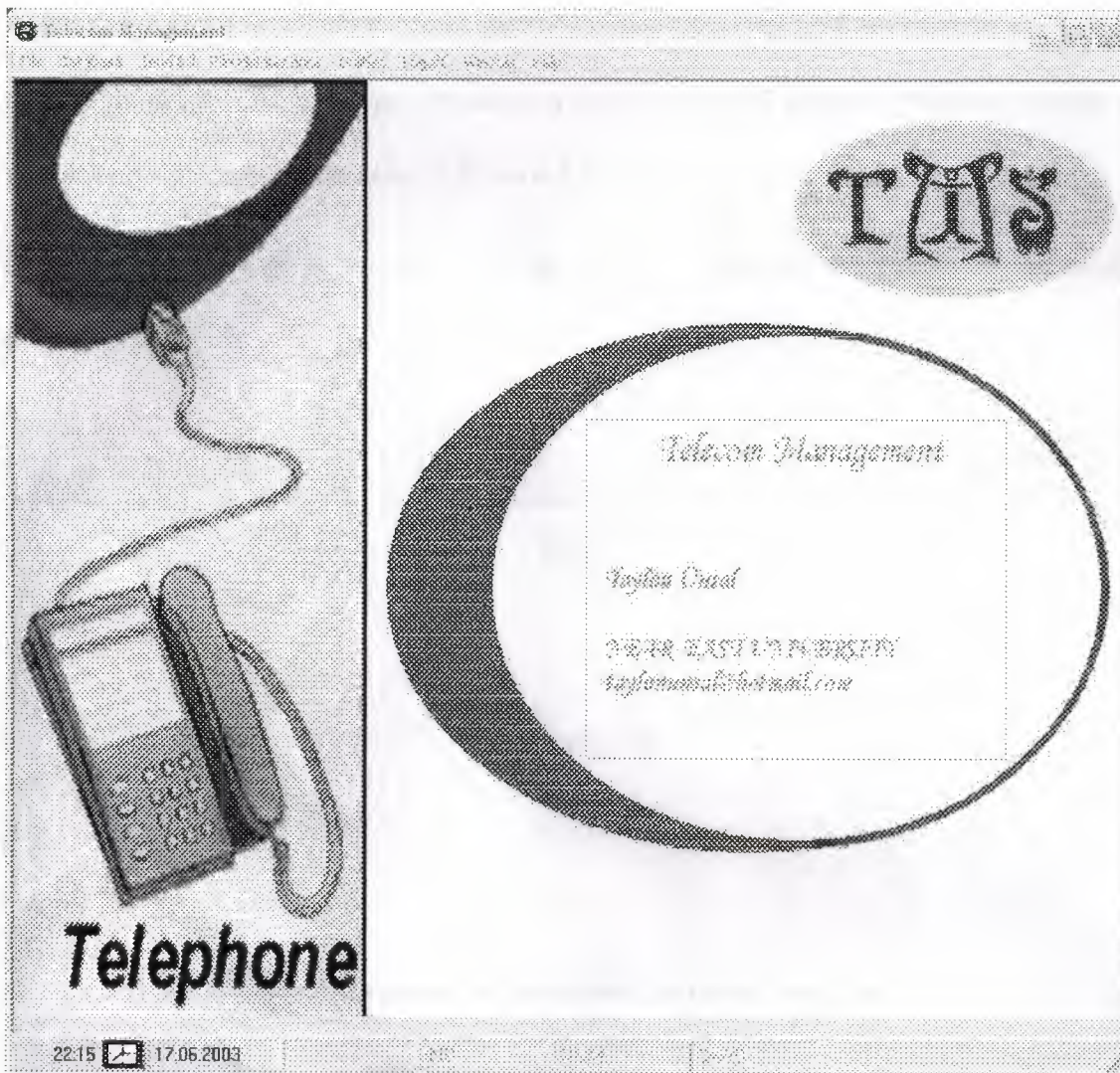
#### **2.3.6. Logoff**

#### **2.3.7. Windows**

#### **2.3.8. About**

### **2.4. Delete window (frmdelete.frm)**





**Figure 2.3. Main Window**

### **2.3.1. File Menu**

#### **2.3.1.1. Customer Record (frmbilling.frm)**

Here user can enter data about the customer and store them into tblebill Table in dbbilling Database. User must type all information about below list as name , surname, adress , phone , Due date and Billing period date of customer. If user will not complete all information Add Button is not going to add new data into database. User have to now administrator password for add to new customer. After storing data into database, data can be edit , cancelled , search by GSM No or Family Name. User can change

basic charges of this account; these are subscriber meter time, subscriber meter price, tax and fixed fee. These charges are using to calculate of bill amount. Also user can take printout of customer information. ( **Figure 2.4.** )

**Note :** Gsm No are given automatically by program. User can not change this number.  
(**Figure 2.5.** )

Telephone Bill

Dear

This is your bill for telephone consumed in the billing period. Please bring this bill when paying.

---

GSM No: 8880018

Name: UNBAL TAYLAN

Service Address: yelosa

Billing Period: 05.06.2003 05.06.2003

---

Total Speak Time (sec): 0

Due Date: 05.06.2003

BASIC CHARGES

Subscriber Meter Time	5
Subscriber Meter Price	17000
tax	25
fixed	2500000
Bill Amount	0

**Figure 2.4. Printout of Bill**



**Customer Record**

**Customer Record**

**IDENTIFICATION**

GSM No:

Account name:

Surname First Name Family Name

Service address:

Job address:

Tel no 1:  Tel no 2:

**CONSUMER INFORMATION**

Due Date:

Billing period:

**BASIC CHARGES**

Subscription order price:

Subscription price:

Time (h):

Fee:

Fixed Fee:

**Figure 2.5. Customer Record Window**

### 2.3.1.2. Talk Detail (frmall.frm)

This menu provide user to have transaction history for a customer by entering his/him GSM No and date interval to see his transaction history and his total amount of pay to the company. User can sort transaction history by GSM No or date, also can see count of record. **(Figure 2.6.)** User can select date interval to see detailed transaction history of customer by pressing Sort Date button. User have to enter GSM NO and date interval to list talk detail in window. When user press the Show Detail button customer bill amount calculate and shown in right bottom of window. User also can see tax and total speak time of chosen customer. Calculation of bill amount; first of all total speak time converts minutes into second, secondly total speak time(sec) divide to subscriber's



meter time so we find how many subscriber's meter used. Then result multiply by subscriber's meter price so we calculate gross bill amount. Then we have to calculate tax amount; for this operation program select tax rate which is saved in customer record for each customer, this result added fixed fee of company automatically, finally gross bill amount added tax and fixed fee

When user press the Update Account button Bill amount added to main customer record (tblebill in dbbilling). **(Figure 2.7.)** Calculated bill amount will be recorded to customer database which is to report to the customer.

Pressing Print button user can take detailed printout of Call Detail of which customer chosen. **(Figure 2.8. )**

The screenshot shows a window titled "Talk Detail". At the top, there is a toolbar with buttons: Find, Sort GSM No[asc], Sort GSM No[desc], Count, View All, Sort Date, and Print. Below the toolbar is a table with the following data:

			Count	
1	8600000	01.01.2003	234	8557898
2	8600000	01.01.2003	45	4555554
3	8600000	01.01.2003	45	5454555
4	8600000	02.01.2003	4545	4545455
5	8600000	02.01.2003	34534	4545455

On the right side of the window, there is a search panel with the following fields and buttons:

- GSM No: [Text Input Field]
- Search detailed information between: [Date Picker] (07.06.2003)
- and: [Date Picker] (07.06.2003)
- Show Detail [Button]
- Cancel [Button]

**Figure 2.6. Talk Detail Window**



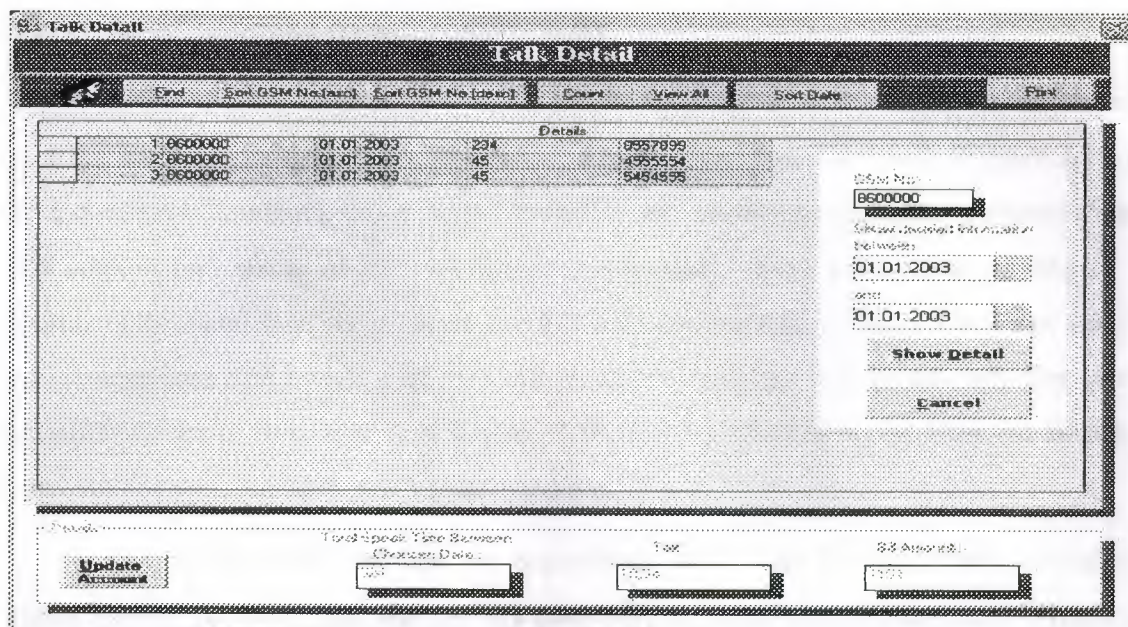


Figure 2.7. Talk Detail Window with Update Account Button

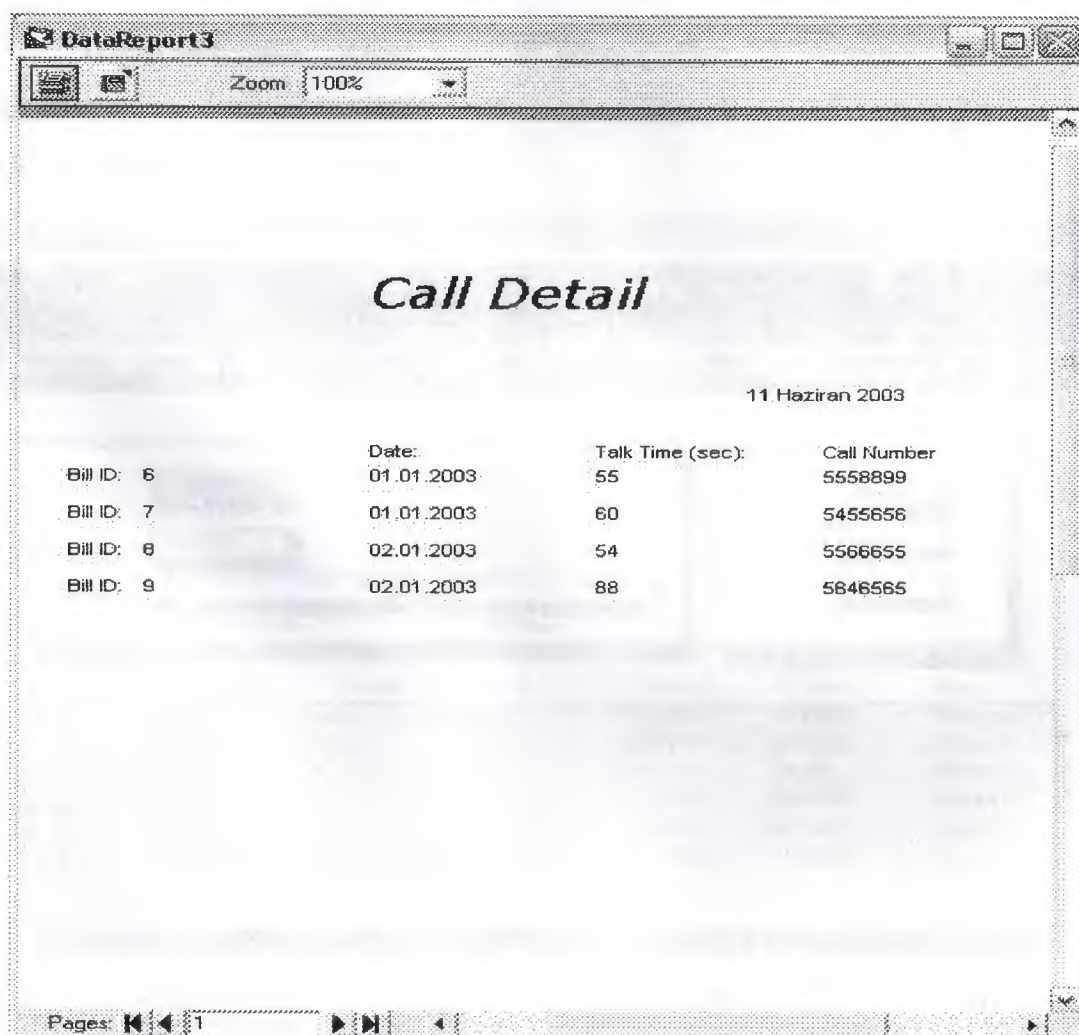


Figure 2.8. Printout of Call detail



### 2.3.1.3. Dis/Connection (frmdisconnect.frm)

In this menu user can see returned bill information of customer from bank. Bank sent these bill information in text document on a specific day in a month (**Figure 2.12.**). This document is include GSM No,customers name, customers surname, payment date, bill amount and status of customer(paid or not paid). User have to check Import / Export File menu (see page.16) to see bill information text is come. User can select which customer paid or not paid own bill so which customer did not pay bill user send attention notice to this customer( **Figure 2.10.** ). With Disconnect and Connect buttons user can controllable customer's phone account.

This information can sort in accordance with Gsm No. due Date, surname, status (which customer did not pay his own bill) or all record of customers. Pressing Print Disconnection Notice button user can take printout of disconnection notice to send to customer. (**Figure 2.9.**) and ( **Figure 2.10.** )

**Important Note:** Users have to press Update All Account button to all information be saved in our main database (dbbilling). It is important to know which customer's account will continue.

The screenshot shows a software window titled "Dis/Connection". At the top, there is a menu bar with buttons: "Disconnect", "Connect", "Due date", "Find", "View all", "Print Disconnection Notice", "See Disconnected", and "Update All Account". Below the menu bar, there are two main sections: "Identification" and "Customer information".

**Identification Section:**

- Bill ID No.: [Redacted]
- GSM No.: [Redacted]
- Account name: [Redacted] (Family Name) [Redacted] (First Name)

**Customer information Section:**

- Bill Amount: 41652400
- Status: Disconnect
- Due Date: 12.12.2003

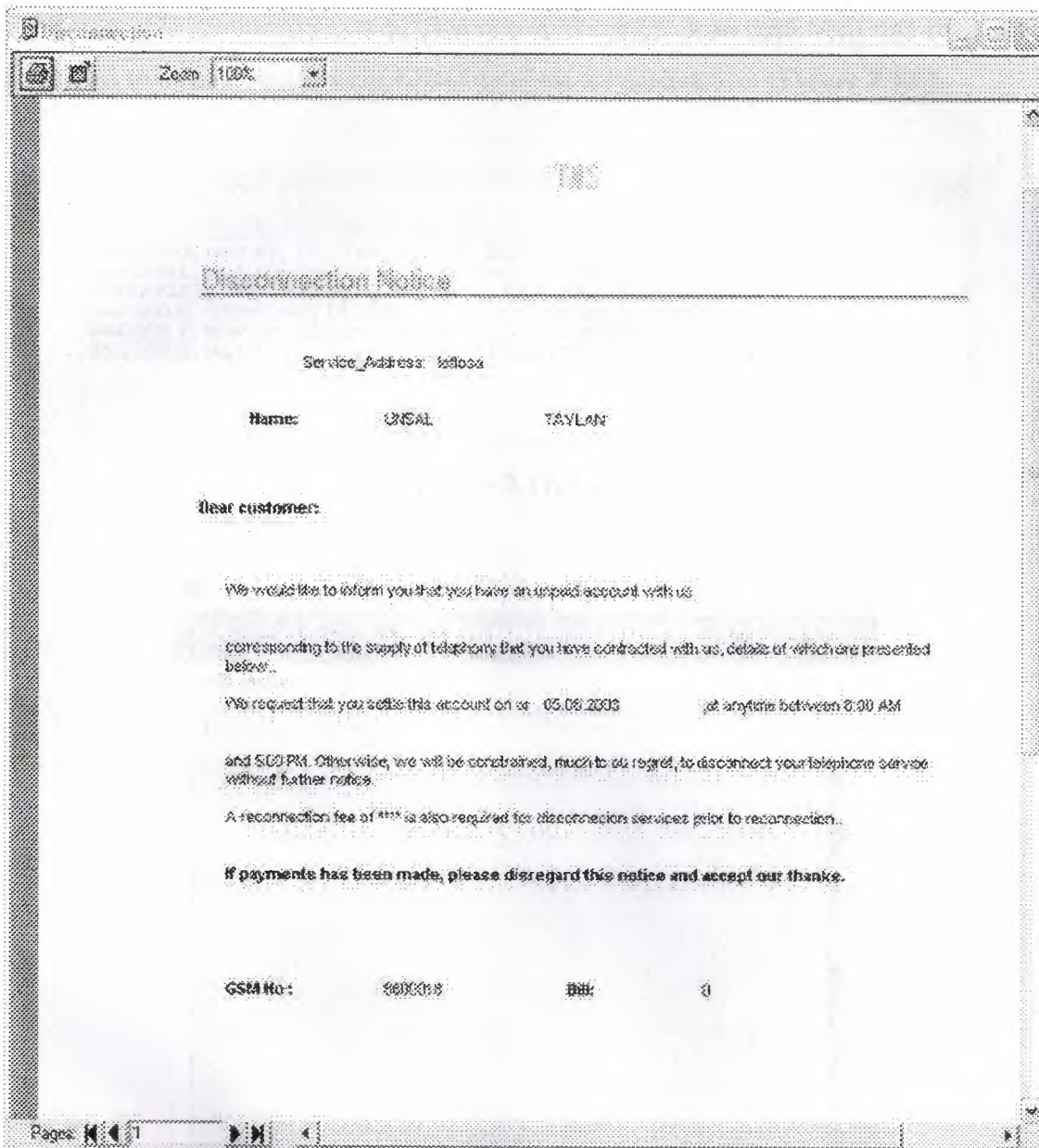
Below these sections is a table with the following columns: Reference ID, GSM No, Surname, Name, Due Date, Bill Amount, and Status.

Reference ID	GSM No	Surname	Name	Due Date	Bill Amount	Status
1	8600000	unsal	laylan	12.12.2003	41652400	Disconnect
2	8600001	hakan	canlı	06.06.2003	78600000	Connected
3	8600002	ali	veli	12.56.4854	546500	Connected
4	8600016	john	do	11.06.2003	65000000	Disconnect
5	8600017	murat	sayar	03.06.2003	42000000	Connected
6	8600018	vanilla	ice	05.05.2003	15000000	Disconnect

At the bottom of the window, there is a status bar showing: Status: Disconnect, Date: 09.06.2003, and Time: 22:43.

**Figure 2.9. Disconnection Window**





**Figure 2.10. Disconnection Notice**

## **2.3.2. Database Menu**

### **2.3.2.1. Import / Export File ( frmimpexp.frm )**

In this menu user can create a text file ( bill.txt ) ( **Figure 2.11.**) from dbbilling database to send to bank by pressing Export DB to Text File button This will convert tblebill table to a comma delimited text file. This text files includes customer GSM No, surname, name, duedate, bill amount, status fields in table.

If user wants to see this file, have to press Read File and Display button. Also user can create a database for returned bill information from bank by clicking Import to



DB button. Dis /connection menu This button is used to load data from text file ( bill ) and add it to billinfo table in BILLING database for further use. (Figure 2.12.)

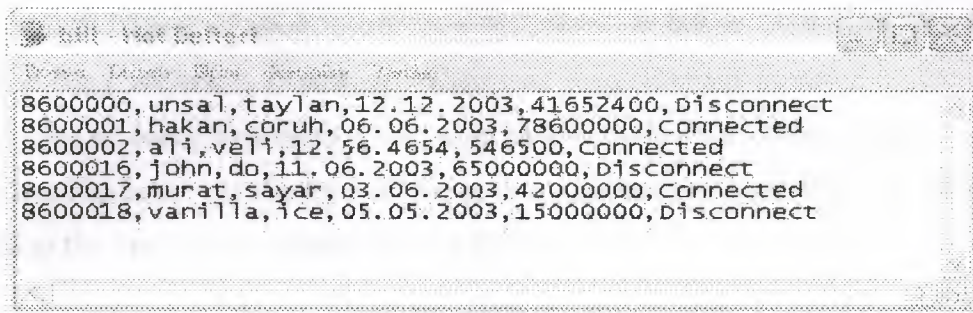


Figure 2.11. bill Text File

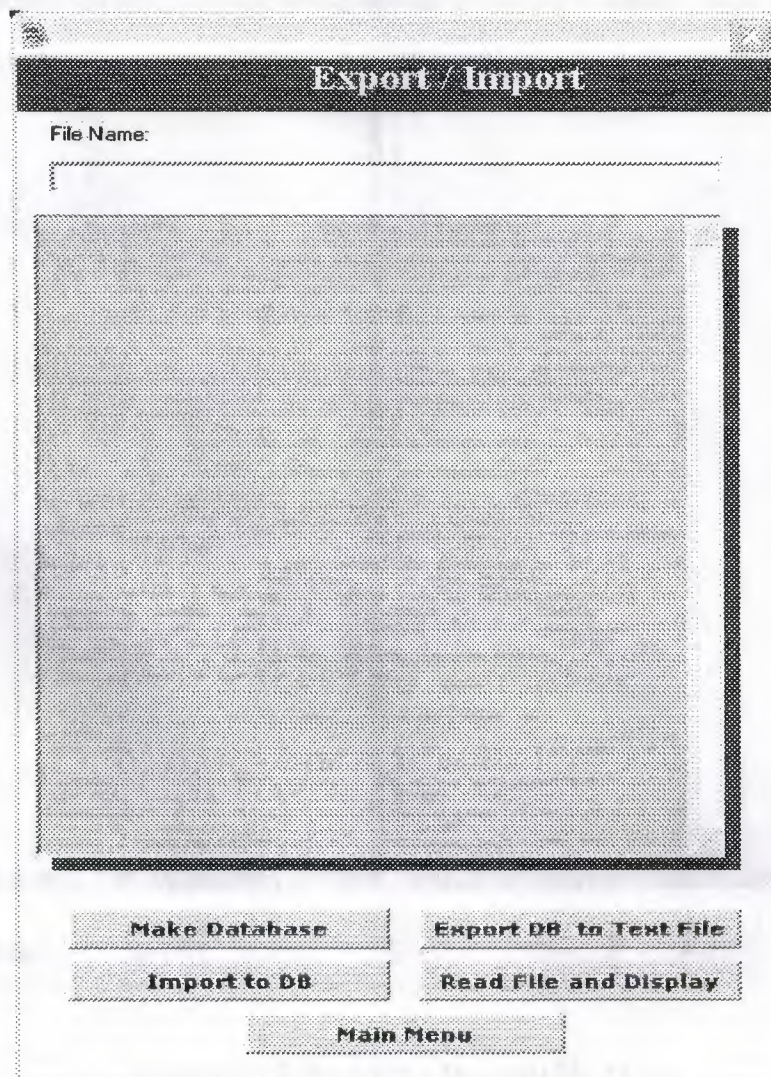
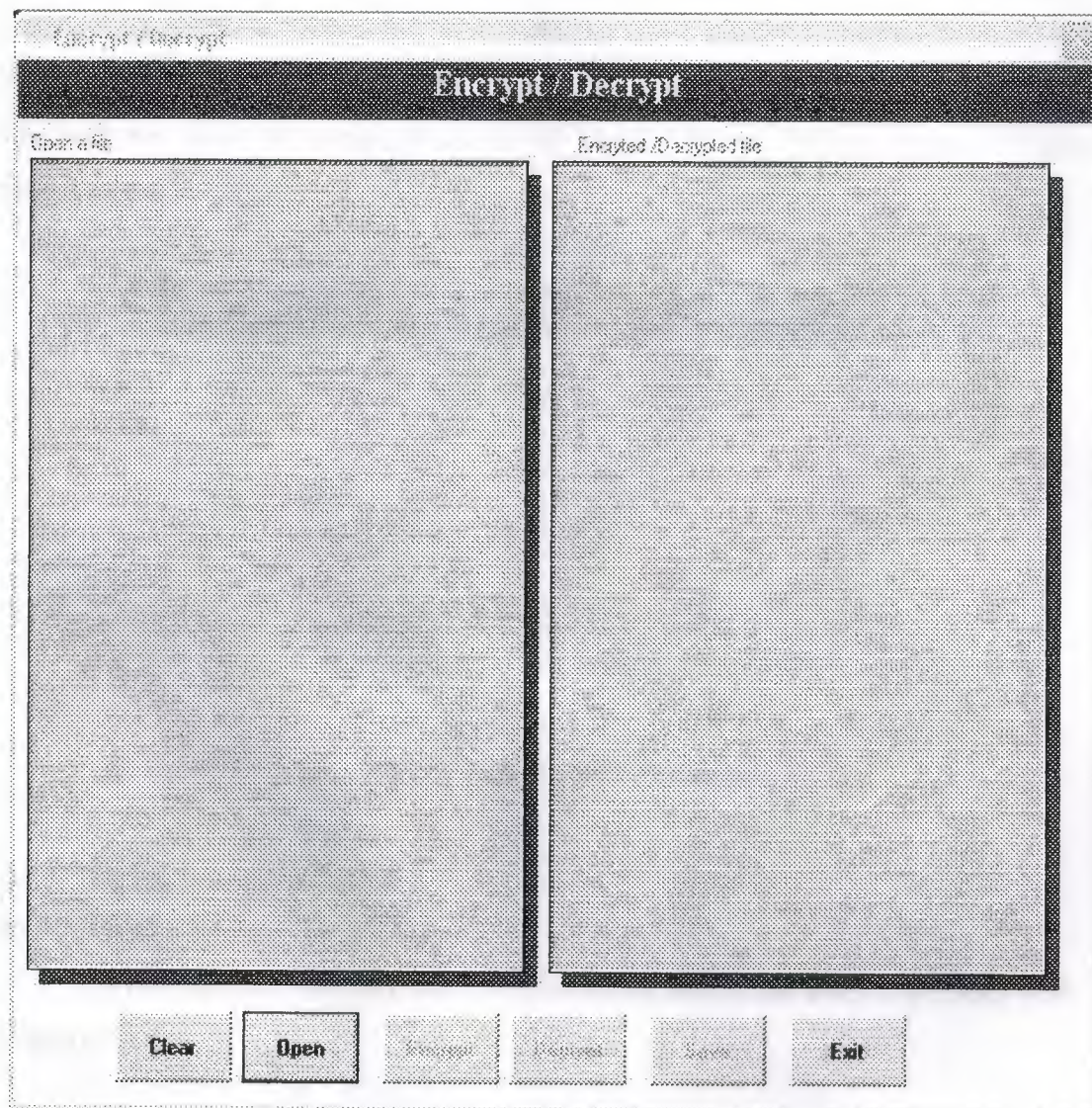


Figure 2.12. Import / Export File Window



### 2.3.2.2. Enrypt / Decrypt (frmencdec.frm)

In this window user can encrypt or decrypt selected file(bill.txt). This file must be created in Import / Export menu. It is necessary for bill security; user have to first open textfile ( bill.text ) to encrypt. When user press Encrypt button program will be asked enter an encryption code which user have to remember. Than user can save the file to send to bank.. At the time of decrpytion user have to enter the code which user entered at the time of encryption. **(Figure 2.13.)**



**Figure 2.13. Encrypt / Decrypt Window**



### 2.3.3. Send Bill Menu

#### 2.3.3.1. Sender (frmSender.frm)

This menu allows user to send and receive binary file ( bill.txt ) to the bank in a very little time . It uses TCP port 50, so user must check system firewall to enable the messaging on the port. When user press the Send a file over the net button program will automatically send bill.txt file to the bank. bill.txt file must be in working directory of Mobile Phone Billing System Program and also it must encrypted with Encrypt / Decrypt menu used.

When user press Enable File Receiver button start connection for incoming file transfers to the bank. When the bank send the file ( bill.txt ) program will be asked "Accept incoming file ", user have to accept this warning if file is expecting. Incoming file will be saved in setup directory of Mobile Phone Billing System Program. (Figure2.14.)

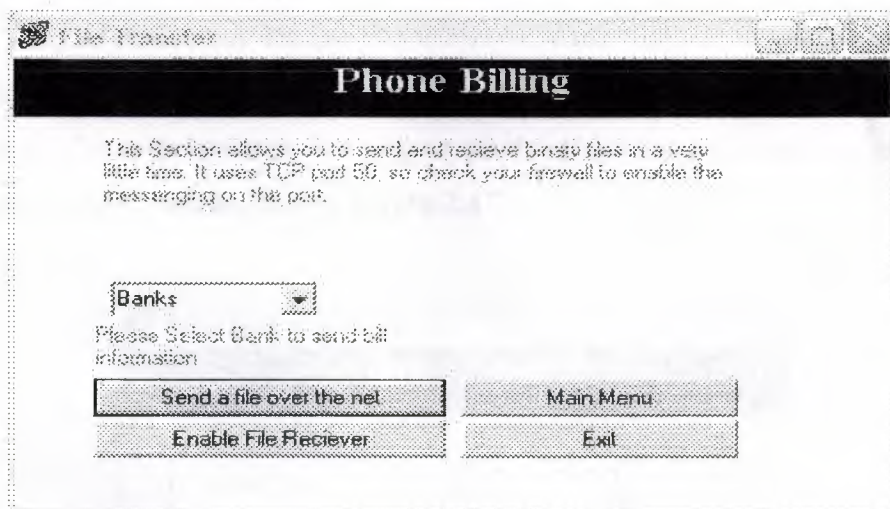


Figure 2.14. Sender Window

### 2.3.4. File Maintenance Menu

#### 2.3.4.1. Make Backup (frmbck.frm)

In this part user can take backup of customer record and keep it in floppy disk. (Figure 2.15. )

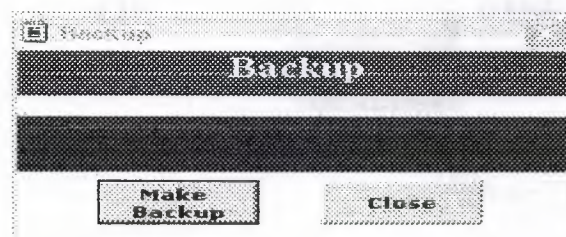


Figure 2.15. Backup Window



#### 2.3.4.2. Change Password (Change.frm)

User can change his/her own login password in this section. ( Figure 2.16. )

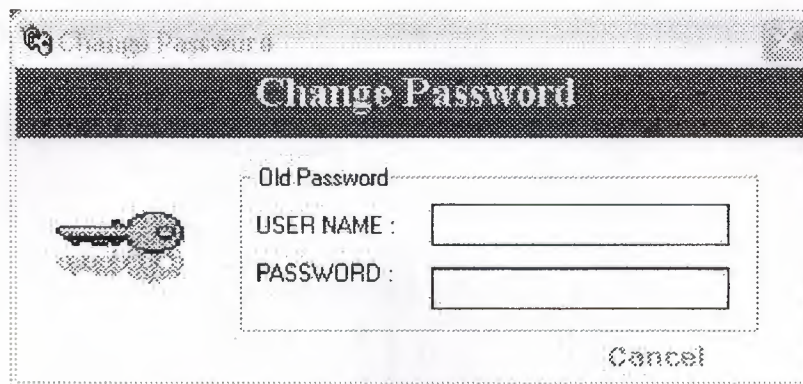
The image shows a software window titled "Change Password". On the left side of the window is a small icon of a key. To the right of the icon, there is a label "Old Password:" followed by a text input field. Below this, there are two more text input fields, the first labeled "USER NAME :" and the second labeled "PASSWORD :". At the bottom right of the window is a "Cancel" button.

Figure 2.16. Chance Password Window

#### 2.3.4.3. Administrator Area ( frmadmin.frm)

Only administrator can use this window. When clicked the administrator area in main window program will ask administrator password, administrator have to supply this password for enter this area. In this area administrator can add new user, edit existing user or edit own account. ( Figure 2.17. )

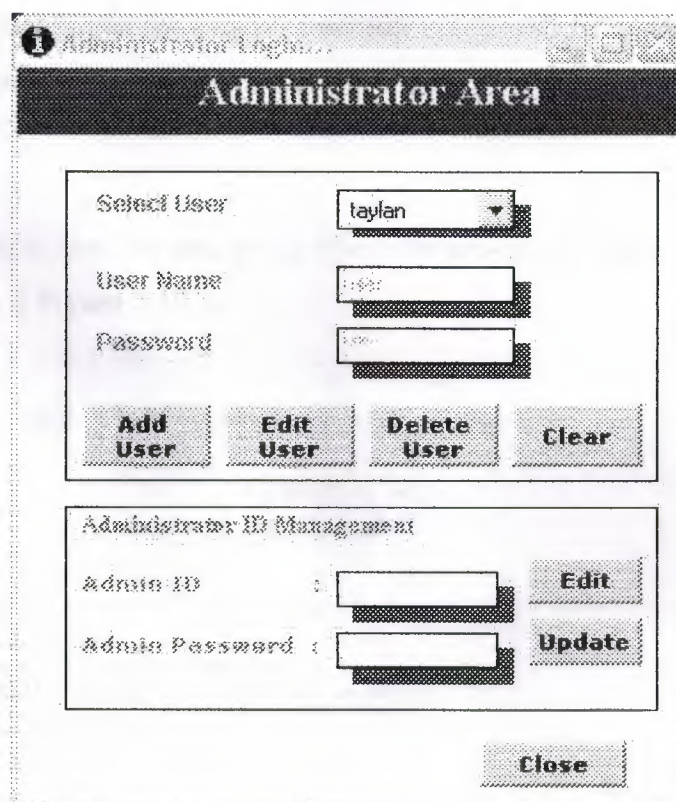
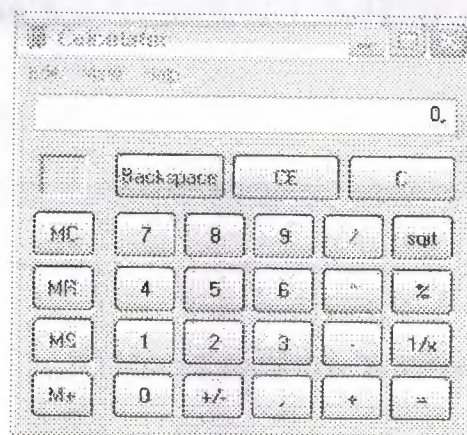
The image shows a software window titled "Administrator Area". It contains two main sections. The top section is for user management, featuring a "Select User" dropdown menu with "taylan" selected, and three text input fields for "User Name", "Password", and "Confirm Password". Below these fields are four buttons: "Add User", "Edit User", "Delete User", and "Clear". The bottom section is titled "Administrator ID Management" and contains two text input fields for "Admin ID" and "Admin Password", each followed by an "Edit" button. At the bottom right of the window is a "Close" button.

Figure 2.17. Administrator Area Window

## 2.3.5. Utilities Menu

### 2.3.5.1. Calculator

User can use calculator to any aritmetical operation. ( **Figure 2.18.** )



**Figure 2.18. Calculator**

### 2.3.6. Logoff Menu

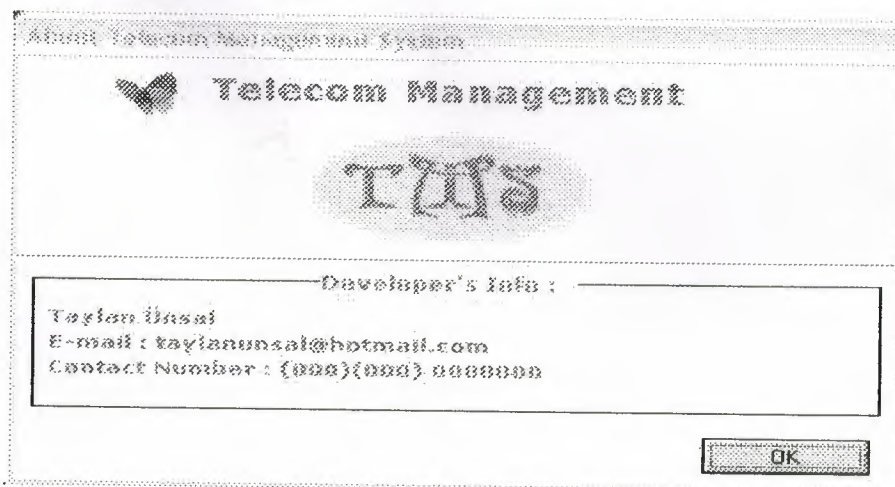
This option help us to change user for the Mobile Phone Billing Program

### 2.3.7. Windows Menu

This menu is useful for user because user can see which window or windows open and user can easily select one of them.

### 2.3.8. About

This menu inform the user about who programmed the Mobil Phone Billing System Program. ( **Figure 2.19.** )

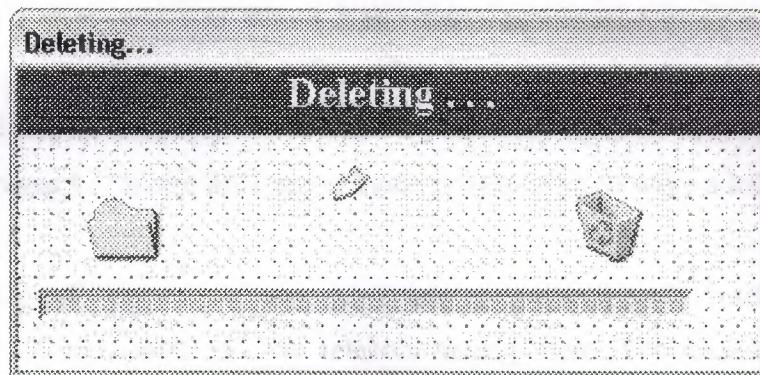


**Figure 2.19. About Window**



#### 2.4. Delete window (frmdelete.frm):

This window is animation of delete record. ( **Figure 2.20.** )



**Figure 2.20. Delete Window**

## CONCULUSION

This project help me to increase my knowledge about Object Oriented Programming and how to use Visual Basic 6.0. Traditional programming languages obligates the programmer to write a lots of code and procedure to develop to similar program that includes data functions , buttons , different types of text-boxes ... etc. But in Object Oriented Language does not obligate programmer to write a lots of code it has in own library.

The aim of this project was to create a program that should be used for automation at billing control of any telecom management. The reason behind this to make the operation accurate, organized and faster which in saving time and efforts.

In project I found specific solution to my problem. I improve my programming language in this project.



## REFERENCES

### Reference to Books:

- [1] Faruk Çubukçu, Visual Basic 6: M.Faruk Bayrak, Ankara, 2000
- [2] İhsan Karagülle, Visual Basic 6.0 Pro :Türkmen Kitapevi, İstanbul, 2002
- [3] Memik Yanık, Visual Basic For Windows 95/98 NT: Beta Basım, İstanbul, 2000

### Reference to Electronic Sources-Online sources from Web:

- [1] [www.vbasic.bilgisi.com](http://www.vbasic.bilgisi.com)
- [2] [www.schlumbergersema.com](http://www.schlumbergersema.com)
- [3] [www.advisor.com](http://www.advisor.com)
- [4] [www.vbtutor.net](http://www.vbtutor.net)
- [5] [www.program.arşivi.com](http://www.program.arşivi.com)
- [6] [www.turkcell.com.tr](http://www.turkcell.com.tr)

## APPENDIX

### A. Program Codes

1. Splash screen ( frmSplash.frm )	26
2. Log – in to program window codes ( frmpass.frm )	26
3. Main window code ( MDIForm1.frm )	28
4. Customer record window code ( frmbilling.mdb )	31
5. Talk detail window code ( frmall.frm )	44
6. Dis / connection window code ( frmdisconnect.frm )	48
7. Import / export file window code ( frmimpexp.frm )	53
8. Encrypt /decrypt file window code ( frmencdec.frm )	58
9. Send bill window code ( frmSender.frm )	63
10. Make backup window code ( frmbck.frm )	67
11. Change password window code ( Change.frm )	68
12. Administrator area window code ( frmadmin.frm )	72
13. About window code ( frmAbout.frm )	76
14. Deleting Window code ( frmdelete.frm )	77



### **1. Splash screen ( frmSplash.frm )**

```
Private Sub Form_Click()
```

```
Load frmpass
```

```
Unload Me
```

```
frmpass.Show 1
```

```
End Sub
```

```
Private Sub Form_KeyPress(KeyAscii As Integer)
```

```
Load frmpass
```

```
Unload Me
```

```
frmpass.Show 1
```

```
End Sub
```

```
Private Sub Label1_Click(Index As Integer)
```

```
'Call Shell("start mailto:taylanunsal@hotmail.com")
```

```
End Sub
```

### **2. Log – in to program window codes ( frmpass.frm )**

```
Dim db As Database
```

```
Dim rs As Recordset
```

```
Private Sub Command1_Click()
```

```
With Data2
```

```
.Recordset.MoveFirst
```

```
Do Until .Recordset.EOF
```

```
If (.Recordset.Fields(0) = Text1.Text) And (.Recordset.Fields(1) = Text2.Text) Then
```

```
'If Text1.Text = Data1.Recordset("userid") Then '& Text2.Text =
```

```
Data1.Recordset("password") Then
```

```
Unload Me
```

```
frmadmin.Show
```

```
Exit Sub
```

```
Else
```

```
.Recordset.MoveNext
```

```
End If
```

```

Loop
'Label4.Caption = "Invalid username or ID.Try again.. "
MsgBox "Invalid Username or password.Try again...", vbCritical, "HMS"
Text1.Text = ""
Text2.Text = ""
Text1.SetFocus
End With
End Sub

Private Sub Command2_Click()
With Data1
.Recordset.MoveFirst
Do Until .Recordset.EOF
If (.Recordset.Fields("userid") = Text1.Text) And (.Recordset.Fields("password") =
Text2.Text) Then
'If Text1.Text = Data1.Recordset("userid") Then '& Text2.Text =
Data1.Recordset("password") Then
Unload Me
MDIForm1.Show
Exit Sub
Else
.Recordset.MoveNext
End If
Loop
'Label4.Caption = "Invalid username or ID.Try again.. "
MsgBox "Invalid Username or password.Try again...", vbCritical, "HMS"
Text1.Text = ""
Text2.Text = ""
Text1.SetFocus
End With
End Sub

Private Sub Command3_Click()
Close Databases

```



End

End Sub

*Private Sub Form\_Load()*

Data1.DatabaseName = App.Path & "\Pas.mdb"

Data1.RecordSource = "select \* from user"

Data2.DatabaseName = App.Path & "\Pas.mdb"

Data2.RecordSource = "select \* from admin"

End Sub

*Private Sub Text1\_KeyPress(KeyAscii As Integer)*

If KeyAscii = 13 Then

Text2.SetFocus

SendKeys "{home}+{end}"

Text1.Text = LCase(Text1.Text)

End If

End Sub

*Private Sub Text2\_KeyPress(KeyAscii As Integer)*

If KeyAscii = 13 Then

Command2.SetFocus

SendKeys "{home}+{end}"

Text1.Text = LCase(Text1.Text)

End If

End Sub

### **3. Main window code ( MDIForm1.frm )**

Option Explicit

*Private Sub about\_Click()*

Load frmAbout

frmAbout.Show

End Sub

*Private Sub backup\_Click()*

```
Load frmback
frmback.Show
End Sub
```

```
Private Sub billing_Click()
Load frmbilling
frmbilling.Show
End Sub
```

```
Private Sub calc_Click()
On Error Resume Next
Dim ray
ray = Shell("CALC.EXE", 1)
End Sub
```

```
Private Sub chnpass_Click()
Load Change
Change.Show
End Sub
```

```
Private Sub cpas_Click()
Dim n
n = InputBox("Please supply password or type 'cancel' to undo", "Message")
n = LCase(n)
If n = "1" Then
Load frmadmin
frmadmin.Show
ElseIf n = "cancel" Then
MsgBox "Adding new service ID number cancel", vbInformation, "Message"
ElseIf n = "" Then
'do nothing
Else
MsgBox "Invalid password", vbCritical, "Message"
End If
```



End Sub

Private Sub custrec\_Click()

Load frmall

frmall.Show

End Sub

Private Sub discon\_Click()

Load frmdisconnect

frmdisconnect.Show

End Sub

Private Sub exit\_Click()

Dim a

a = MsgBox("Are you sure you want?", vbQuestion + vbYesNo, "Exit")

If a = vbYes Then

Beep

End

End If

End Sub

Private Sub impex\_Click()

Load frmimpexp

frmimpexp.Show

End Sub

Private Sub MDIForm\_QueryUnload(Cancel As Integer, UnloadMode As Integer)

Dim a

a = MsgBox("Are you sure you want to Quit?", vbYesNo + vbQuestion, "Exit")

If a = vbYes Then

End

Else

Cancel = True

End If

End Sub

Private Sub sender\_Click()

Load frmSender

frmSender.Show

End Sub

Private Sub stan\_Click()

Load frmencdec

frmencdec.Show

End Sub

#### **4. Customer record window code ( frmbilling.mdb )**

Option Explicit

Dim f

Private Sub cmddisabled\_Click()

On Error Resume Next

Text2.Enabled = False

Text3.Enabled = False

Text4.Enabled = False

Text5.Enabled = False

Text6.Enabled = False

Text7.Enabled = False

Text8.Enabled = False

Text9.Enabled = False

Text10.Enabled = False

Text13.Enabled = False

Text14.Enabled = False

Text17.Enabled = False

XPCalendar1.Enabled = False

XPCalendar2.Enabled = False

XPCalendar3.Enabled = False

End Sub



```
Private Sub cmdenabled_Click()
```

```
On Error Resume Next
```

```
Text2.Enabled = True
```

```
Text3.Enabled = True
```

```
Text4.Enabled = True
```

```
Text5.Enabled = True
```

```
Text6.Enabled = True
```

```
Text7.Enabled = True
```

```
Text9.Enabled = True
```

```
Text10.Enabled = True
```

```
Text13.Enabled = True
```

```
Text14.Enabled = True
```

```
Text17.Enabled = True
```

```
End Sub
```

```
Private Sub Command1_Click()
```

```
Dim bill
```

```
Dim tax
```

```
On Error Resume Next
```

```
If Text7.Text = "" Then
```

```
MsgBox "Enter talk time first", vbInformation, "Message"
```

```
End If
```

```
bill = ((Val(Text7.Text) * 60) / 6) * 17000
```

```
tax = (bill * 20) / 100
```

```
txtbill.Text = bill + tax + 1700000
```

```
'txtbill.Text = Format(txtbill.Text, ".00")
```

```
End Sub
```

```
Private Sub Command2_Click()
```

```
Frame4.Enabled = True
```

```
Text12.Enabled = True
```

```
Text11.Enabled = True
```

```
Text15.Enabled = True
```

```

Text16.Enabled = True
Label2(8).Enabled = True
Label2(9).Enabled = True
Label4(10).Enabled = True
Label4(11).Enabled = True
Label2(10).Enabled = True
Label2(3).Enabled = True
Command1.Visible = False
'Command3.Visible = True
Text11.SetFocus
Toolbar1.Buttons(5).Enabled = False
Toolbar1.Buttons(4).Enabled = False
Toolbar1.Buttons(2).Enabled = True
Data1.Recordset.Edit
Data1.Recordset.Fields("Subscriber_Meter_Time") = Text11.Text
Data1.Recordset.Fields("Subscriber_Meter_Price") = Text12.Text
Data1.Recordset.Fields("tax") = Text15.Text
Data1.Recordset.Fields("fixedf") = Text16.Text
Data1.Recordset.Update
End Sub

Private Sub Command3_Click()
Dim bill
Dim tax
On Error Resume Next
If Text7.Text = "" And Text12.Text = "" Then
MsgBox "Enter necessary information first", vbInformation, "Message"
End If
bill = ((Val(Text7.Text) * 60) / Val(Text12.Text)) * Val(Text11.Text)
tax = (bill * Text15.Text) / 100
If Text16.Text = "" Then
txtbill.Text = bill + tax + 1700000
Else
txtbill.Text = bill + tax + Text16.Text

```



```

End If

'txtbill.Text = Format(txtbill.Text, ".00")
Data1.Recordset.Edit
End Sub

Private Sub Command4_Click()
On Error Resume Next
Data1.Recordset.CancelUpdate
Data1.Recordset.MovePrevious
Command4.Visible = False
cmdddisabled_Click
End Sub

Private Sub Form_Load()
Data1.DatabaseName = App.Path + "\dbbilling.mdb"
Data1.RecordSource = ("select * from tblebill")
Data2.DatabaseName = App.Path + "\Counter.mdb"
Data2.RecordSource = ("select * from Counter")
Data3.DatabaseName = App.Path + "\gsmno.mdb"
Data3.RecordSource = ("select * from gsm")
Toolbar1.Buttons(2).Enabled = False
Text2.Enabled = False
Text3.Enabled = False
Text4.Enabled = False
Text5.Enabled = False
Text6.Enabled = False
Text7.Enabled = False
Text8.Enabled = False
Text9.Enabled = False
Text10.Enabled = False
Text11.Enabled = False
Text12.Enabled = False
Text13.Enabled = False
Text14.Enabled = False

```

```

Text17.Enabled = False
txtbill.Enabled = False
Text10.Text = XPCalendar1.Value
Text14.Text = XPCalendar2.Value
Text9.Text = XPCalendar3.Value
XPCalendar1.Visible = False
XPCalendar2.Visible = False
XPCalendar3.Visible = False
End Sub

```

```

Private Sub Form_QueryUnload(Cancel As Integer, UnloadMode As Integer)
On Error Resume Next
If Text2.Enabled = True Then
If MsgBox("Record has been changed. Do you want to save it ?", vbYesNo +
vbQuestion, "Message") = vbNo Then
Cancel = True
Data1.Recordset.CancelUpdate
Data1.Recordset.MovePrevious
Me.Hide
End If
Else
If MsgBox("Close Customer Record?", vbYesNo + vbQuestion, "Message") = vbNo
Then
Cancel = True
Else
Cancel = False
End If
End If
End Sub

Private Sub mnuclicac_Click()
On Error Resume Next
Dim ray
ray = Shell("CALC.EXE", 1)

```



End Sub

Private Sub mnudelete\_Click()

On Error Resume Next

If Text8.Enabled = True Then

MsgBox "Record has been changed. Do you want to save it", vbInformation, "Message"

ElseIf Text8.Text = "" Then

MsgBox "There are no record to delete", vbInformation, "Message"

Else

If MsgBox("Delete this record?", vbYesNo + vbQuestion, "Message") = vbYes Then

Data1.Recordset.Delete

Data1.Recordset.MoveNext

Load frmdelete

frmdelete.Show 1

End If

End If

'End If

End Sub

Private Sub mnuedit\_Click()

On Error Resume Next

If txtstatus.Text = "Disconnected" Then

MsgBox "Cannot edit GSM number status disconnected", vbCritical, "Message"

Else

Data1.Recordset.Edit

Text8.Enabled = False

XPCalendar1.Visible = True

XPCalendar2.Visible = True

XPCalendar3.Visible = True

Toolbar1.Buttons(5).Enabled = False

Toolbar1.Buttons(4).Enabled = False

Toolbar1.Buttons(2).Enabled = True

cmdenabled\_Click

```

Text2.SetFocus
End If
End Sub

Private Sub mnufind_Click()
On Error Resume Next
If Text8.Enabled = True Then
MsgBox "Record has been changed. Do you want to save it", vbInformation, "Message"
Else
Dim f
f = InputBox("Input GSM No. or Family name", "Find")
If f <> "" Then
Data1.RecordSource = ("select * from tblebill where givenno = " & f + " or
FamilyName= " & f + "")
Data1.Refresh
End If
If Text8.Text = "" Then
MsgBox "Record does not exist", vbInformation, "Message"
Data1.RecordSource = "select * from tblebill where givenno <> """"
Data1.Refresh
End If
End If
End Sub

Private Sub mnunew_Click()
On Error Resume Next
Dim n
n = InputBox("Please supply password or type 'cancel' to undo", "Message")
n = LCase(n)
If n = "1" Then
Data1.Recordset.AddNew
Command4.Visible = True
Text8.Enabled = False
Text7.Enabled = True

```



```

Text10.Visible = False
Text14.Visible = False
Text9.Visible = False
XPCalendar1.Visible = True
XPCalendar2.Visible = True
XPCalendar3.Visible = True
Toolbar1.Buttons(5).Enabled = False
Toolbar1.Buttons(4).Enabled = False
Toolbar1.Buttons(2).Enabled = True
Textgsm.Text = Val(Textgsm.Text) + 1
Text8.Text = Format$(Textgsm.Text)
cmdenabled_Click
txtstatus.Text = "Connected"
Text2.SetFocus
ElseIf n = "cancel" Then
MsgBox "Adding new GSM number cancel", vbInformation, "Message"
ElseIf n = "" Then
'do nothing
Else
MsgBox "Invalid password", vbCritical, "Message"
mnunew_Click
End If
End Sub

Private Sub mnupreview_Click()
On Error Resume Next
If Text8.Enabled = True Then
MsgBox "Save record first", vbInformation, "Message"
Else
DataEnvironment1.Commands(1).CommandText = "Select * from tblebill where
givenno = " & Text8.Text & " "
DataEnvironment1.Commands(1).Execute
Load DataReport1
DataReport1.Show 1

```

```
DataEnvironment1.rsCommand1.Close
```

```
End If
```

```
End Sub
```

```
Private Sub mnuprint_Click()
```

```
On Error Resume Next
```

```
If Text8.Enabled = True Then
```

```
MsgBox "Save record first", vbInformation, "Message"
```

```
Else
```

```
DataEnvironment1.Commands(1).CommandText = "Select * from tblebill where  
givenno = '" & Text8.Text & "' "
```

```
DataEnvironment1.Commands(1).Execute
```

```
DataReport1.PrintReport CommonDialog1.Copies
```

```
DataEnvironment1.rsCommand1.Close
```

```
End If
```

```
End Sub
```

```
Private Sub mnusave_Click()
```

```
On Error Resume Next
```

```
Data1.Refresh
```

```
Data1.Recordset.Edit
```

```
Data1.Recordset.Update
```

```
Data1.Refresh
```

```
Toolbar1.Buttons(5).Enabled = True
```

```
Toolbar1.Buttons(4).Enabled = True
```

```
Toolbar1.Buttons(2).Enabled = False
```

```
cmddisabled_Click
```

```
End Sub
```

```
Private Sub Text1_KeyPress(KeyAscii As Integer)
```

```
On Error Resume Next
```

```
If KeyAscii = 13 Then
```

```
Text2.SetFocus
```

```
End If
```



End Sub

Private Sub Text10\_KeyPress(KeyAscii As Integer)

On Error Resume Next

If KeyAscii = 13 Then

Text14.SetFocus

End If

End Sub

Private Sub Text14\_KeyPress(KeyAscii As Integer)

On Error Resume Next

If KeyAscii = 13 Then

Text7.SetFocus

End If

End Sub

Private Sub Text2\_KeyPress(KeyAscii As Integer)

On Error Resume Next

If KeyAscii = 13 Then

Text3.SetFocus

End If

End Sub

Private Sub Text3\_KeyPress(KeyAscii As Integer)

On Error Resume Next

If KeyAscii = 13 Then

Text5.SetFocus

End If

End Sub

Private Sub Text4\_KeyPress(KeyAscii As Integer)

On Error Resume Next

If KeyAscii = 13 Then

Text5.SetFocus

End If

End Sub

Private Sub Text5\_KeyPress(KeyAscii As Integer)

On Error Resume Next

If KeyAscii = 13 Then

Text10.SetFocus

End If

End Sub

Private Sub Text6\_KeyPress(KeyAscii As Integer)

On Error Resume Next

If KeyAscii = 13 Then

Text7.SetFocus

End If

End Sub

Private Sub Text7\_KeyPress(KeyAscii As Integer)

On Error Resume Next

If KeyAscii = 13 Then

Text9.SetFocus

Text8.Text = Text14.Text

End If

End Sub

Private Sub Text8\_KeyPress(KeyAscii As Integer)

On Error Resume Next

If KeyAscii = 13 Then

Text9.SetFocus

End If

End Sub

Private Sub Text9\_KeyPress(KeyAscii As Integer)

On Error Resume Next



```
If KeyAscii = 13 Then
End If
End Sub
```

```
Private Sub Toolbar1_ButtonClick(ByVal Button As MSComctlLib.Button)
```

```
On Error Resume Next
```

```
Select Case Button.Key
```

```
Case "tnew"
```

```
mnunew_Click
```

```
Case "tedit"
```

```
mnuedit_Click
```

```
Case "tsave"
```

```
mnusave_Click
```

```
Case "tdelete"
```

```
mnudelete_Click
```

```
Case "tfirst"
```

```
If Text8.Enabled = True Then
```

```
MsgBox "Record has been changed. Do you want to save it", vbInformation, "Message"
```

```
Else
```

```
Data1.Recordset.MoveFirst
```

```
MsgBox "First record", vbInformation, "Message"
```

```
End If
```

```
Case "tprevious"
```

```
If Text8.Enabled = True Then
```

```
MsgBox "Record has been changed. Do you want to save it", vbInformation, "Message"
```

```
Else
```

```
Data1.Recordset.MovePrevious
```

```
If Data1.Recordset.BOF = True Then
```

```
MsgBox "First record already", vbInformation, "Message"
```

End If  
End If

Case "tnext"

If Text8.Enabled = True Then

MsgBox "Record has been changed. Do you want to save it", vbInformation, "Message"

Else

Data1.Recordset.MoveNext

If Data1.Recordset.EOF = True Then

MsgBox "Last record already", vbInformation, "Message"

End If

End If

Case "tlast"

If Text8.Enabled = True Then

MsgBox "Record has been changed. Do you want to save it", vbInformation, "Message"

Else

Data1.Recordset.MoveLast

MsgBox "Last record", vbInformation, "Message"

End If

Case "tfind"

mnufind\_Click

Case "tpreview"

mnupreview\_Click

Case "tprint"

mnuprint\_Click

End Select

End Sub



```
Private Sub XPCalendar1_Click()
Text10.Text = XPCalendar1.Value
End Sub
```

```
Private Sub XPCalendar2_Click()
Text14.Text = XPCalendar2.Value
End Sub
```

```
Private Sub XPCalendar3_Click()
Text9.Text = XPCalendar3.Value
End Sub
```

## 5. Talk detail window code ( frmall.frm )

```
Option Explicit
```

```
Dim f
```

```
Private Sub Command1_Click()
On Error Resume Next
f = InputBox("Input GSM NO ", "Find")
If f <> "" Then
Data1.RecordSource = ("select * from transaction where givenno = " & f + "")
Data1.Refresh
End If
End Sub
```

```
Private Sub Command10_Click()
Dim s As String
s = "select * from tblebill where givenno=" & Text2.Text & ""
Data2.Refresh
Data2.Recordset.Edit
Data2.Recordset.Fields("totalspktime") = Text1.Text
Data2.Recordset.Fields("Bill") = Text4.Text
Data2.Recordset.Update
```

End Sub

Private Sub Command2\_Click()

On Error Resume Next

Data1.RecordSource = ("select \* from transaction order by givenno asc")

Data1.Refresh

End Sub

Private Sub Command3\_Click()

On Error Resume Next

Dim a As String

a = Data1.Recordset.RecordCount

MsgBox ("Total record " + a), vbInformation, "Message"

End Sub

Private Sub Command4\_Click()

On Error Resume Next

Data1.RecordSource = ("Select \* from transaction where givenno < ' '")

Data1.Refresh

End Sub

Private Sub Command5\_Click()

On Error Resume Next

Data1.RecordSource = ("select \* from transaction order by givenno desc")

Data1.Refresh

End Sub

Private Sub Command6\_Click()

Frame3.Visible = True

Text2.Text = ""

Text2.SetFocus

End Sub

Private Sub Command7\_Click()



```

On Error Resume Next
Dim s As String
Dim str As String
Dim tp As String
Dim i
Dim net
Dim total
If Text2.Text = "" Then
MsgBox ("Please Enter GSM No"), vbInformation, "Message"
ElseIf Data1.Recordset.Fields("givenno") <> Text2.Text Then
MsgBox ("Record does not found.."), vbInformation, "Message"
Else
s = ("select * from transaction where givenno=" & Text2.Text & " and tlkdate
between" & txtfirst.Text & " and " & txtlast.Text & """)
Data1.RecordSource = s
Data1.Refresh
tp = 0
With Data1
.Recordset.MoveFirst
Do Until .Recordset.EOF
tp = Val(.Recordset.Fields("tlktimesn")) + Val(tp)
.Recordset.MoveNext
Loop
End With
Text3.Text = Val(tp)
Text1.Text = Text3.Text
net = (((Text1.Text / Text5.Text) * Text6.Text) + Text8.Text)
Text9.Text = (net * (Text7.Text / 100)) 'tax
total = net + Text9.Text
Text4.Text = Int(total)
Frame5.Visible = True
Label15.Visible = True
Frame3.Visible = False
End If

```

End Sub

Private Sub Command8\_Click()

On Error Resume Next

If Text2.Text = "" Then

MsgBox ("Please Enter GSM No and Interval of Date"), vbInformation, "Message"

Else

DataEnvironment1.Commands(2).CommandText = "select \* from transaction where  
givenno='" & Text2.Text & "' and tlkdate between'" & txtfirst.Text & "' and '" &  
txtlast.Text & "'"

DataEnvironment1.Commands(2).Execute

Load DataReport3

DataReport3.Show 1

End If

End Sub

Private Sub Command9\_Click()

Frame4.Visible = False

End Sub

Private Sub Form\_Load()

Frame3.Visible = False

Data1.DatabaseName = App.Path + "\dbbilling.mdb"

Data1.RecordSource = ("select \* from transaction order by givenno")

Data2.DatabaseName = App.Path + "\dbbilling.mdb"

Data2.RecordSource = ("select \* from tblebill ")

End Sub

Private Sub Form\_QueryUnload(Cancel As Integer, UnloadMode As Integer)

On Error Resume Next

End Sub

Private Sub XPCalendar1\_Click()

txtfirst.Text = XPCalendar1.Value

End Sub

```
Private Sub XPCalendar2_Click()  
txtlast.Text = XPCalendar2.Value  
End Sub
```

#### **6. Dis / connection window code ( frmdisconnect.frm )**

```
Private Sub Command1_Click()  
On Error Resume Next  
s = "select * from tblebill where givenno=" & Text5.Text & ""  
If MsgBox("Disconnect " + Text5.Text + " GSM no.", vbYesNo + vbQuestion,  
"Message") = vbYes Then  
lblstatus.Caption = "Disconnect"  
Data2.Recordset.Edit  
Data2.Recordset.Fields("status") = lblstatus.Caption  
Data2.Recordset.Update  
MsgBox "GSM No " + Text5.Text + " disconnected", vbInformation, "Message"  
End If  
End Sub
```

```
Private Sub Command2_Click()  
On Error Resume Next  
If MsgBox("Connect " + Text5.Text + " GSM ID no.", vbYesNo + vbQuestion,  
"Message") = vbYes Then  
lblstatus.Caption = "Connected"  
Data2.Recordset.Edit  
Data2.Recordset.Fields("status") = lblstatus.Caption  
Data2.Recordset.Update  
MsgBox "GSM No " + Text1.Text + " connected", vbInformation, "Message"  
End If  
End Sub
```

```
Private Sub Command3_Click()
```



On Error Resume Next

f = InputBox("Input GSM No. or Surname", "Find")

If f <> "" Then

Data1.RecordSource = ("select \* from billinfo where sid = " & f + " or sname= " & f + """)

Data1.Refresh

End If

If Text1.Text = "" Then

MsgBox "Record does not exist", vbInformation, "Message"

Data1.RecordSource = "select \* from billinfo where sid <> """""

Data1.Refresh

End If

End Sub

Private Sub Command4\_Click()

On Error Resume Next

If lblstatus.Caption = "Connected" Then

MsgBox "Cannot print Bill ID number status connected", vbCritical, "Message"

Else

DataEnvironment1.Commands(1).CommandText = "Select \* from tblebill where givenno = " & Text5.Text & " "

DataEnvironment1.Commands(1).Execute

Load DataReport2

DataReport2.Show 1

DataEnvironment1.rsCommand1.Close

End If

End Sub

Private Sub Command5\_Click()

On Error Resume Next

Data1.RecordSource = "select \* from billinfo where sid <> """""

Data1.Refresh

End Sub

```

Private Sub Command6_Click()
On Error Resume Next
f = InputBox("Input Date", "Find")
If f <> "" Then
Data1.RecordSource = ("select * from billinfo where duedate = " & f + "")
Data1.Refresh
End If
If Text5.Text = "" Then
MsgBox "Due date do not exist", vbInformation, "Message"
Data1.RecordSource = "select * from billinfo where sid <> ''"
Data1.Refresh
End If
End Sub

Private Sub Command7_Click()
On Error Resume Next
Data1.RecordSource = "select * from billinfo where status=" & Text4.Text & ""
Data1.Refresh
Data2.DatabaseName = App.Path + "\dbbilling.mdb"
Data2.RecordSource = ("select * from tblebill")
Data2.Refresh
Data1.Recordset.MoveFirst
Do Until Data1.Recordset.EOF
Data2.Recordset.MoveFirst
Do Until Data2.Recordset.EOF
If Data1.Recordset.Fields("sid").Value = Data2.Recordset.Fields("givenno").Value
Then
Data2.Recordset.Edit
Data2.Recordset.Fields("Status").Value = Data1.Recordset.Fields("status").Value
Data2.Recordset.Update
End If
Data2.Recordset.MoveNext
Loop
Data1.Recordset.MoveNext

```



Loop

End Sub

Private Sub Command9\_Click()

On Error Resume Next

Data1.RecordSource = "select \* from billinfo "

'where status="" & Text4.Text & ""

Data1.Refresh

Data2.DatabaseName = App.Path + "\dbbilling.mdb"

Data2.RecordSource = ("select \* from tblebill")

Data2.Refresh

Data1.Recordset.MoveFirst

Do Until Data1.Recordset.EOF

Data2.Recordset.MoveFirst

Do Until Data2.Recordset.EOF

If Data1.Recordset.Fields("sid").Value = Data2.Recordset.Fields("givenno").Value

Then

Data2.Recordset.Edit

Data2.Recordset.Fields("Status").Value = Data1.Recordset.Fields("status").Value

Data2.Recordset.Update

End If

Data2.Recordset.MoveNext

Loop

Data1.Recordset.MoveNext

Loop

End Sub

Private Sub Form\_Load()

Data1.DatabaseName = App.Path + "\BILLING.mdb"

Data1.RecordSource = ("select \* from billinfo")

Data2.DatabaseName = App.Path + "\dbbilling.mdb"

Data2.RecordSource = ("select \* from tblebill")

End Sub



```

Private Sub Form_QueryUnload(Cancel As Integer, UnloadMode As Integer)
On Error Resume Next
If Text1.Enabled = True Then
MsgBox "Save record first", vbInformation, "Message"
Cancel = True
Else
If MsgBox("Exit?", vbYesNo + vbQuestion, "Message") = vbNo Then
Cancel = True
Else
Unload Me
Cancel = False
End If
End If
End Sub

```

```

Private Sub Form_Resize()
'DBGrid1.Height = Me.ScaleHeight
'DBGrid1.Width = Me.ScaleWidth
End Sub

```

```

Private Sub Timer1_Timer()
On Error Resume Next
If Timer1.Interval = 1000 Then
lblstatus.FontItalic = True

Timer1.Enabled = False
Timer2.Enabled = True
End If
End Sub

```

```

Private Sub Timer2_Timer()
On Error Resume Next
If Timer1.Interval = 1000 Then
lblstatus.FontItalic = False

```

Timer2.Enabled = False

Timer1.Enabled = True

End If

End Sub

## **7. Import / export file window code ( frmimpexp.frm )**

Option Explicit

Private Type PersonalRec

    sid As String

    sname As String

    name As String

    duedate As String

    bill As String

    status As String

End Type

Dim MyRec As PersonalRec

Private Sub cmdExit\_Click()

    Unload Me

End Sub

Private Sub cmdExport\_Click()

    Dim DB1 As Database

    Dim RS1 As Recordset

    Dim sOutput As String

    Dim FP1 As Integer

    Dim i As Integer

    Dim J As Integer

    Dim FileType As Integer

    txtOutput.Text = "bill"

    Set DB1 = OpenDatabase(App.Path & "\dbbilling.mdb", False, False)

    Set RS1 = DB1.OpenRecordset("tblebill")

```

RS1.MoveLast
RS1.MoveFirst
If InStr(1, txtOutput.Text, "\") = 0 Then
txtOutput.Text = App.Path & "\" & txtOutput.Text
End If
FP1 = FreeFile
Open txtOutput.Text For Output As #FP1
For i = 1 To RS1.RecordCount
With MyRec
.sid = RS1.Fields(0)
.sname = RS1.Fields(1)
.name = RS1.Fields(2)
.duedate = RS1.Fields(3)
.bill = RS1.Fields(4)
.status = RS1.Fields(5)

Print #FP1, .sid & "," & .sname & "," & .name & "," & .duedate & "," & .bill & "," &
.status
End With
sOutput = ""
RS1.MoveNext
Next
Close
Set RS1 = Nothing
Set DB1 = Nothing
MsgBox "Done creating output file."
End Sub

Private Sub cmdImport_Click()
Dim DB1 As Database
Dim RS1 As Recordset
Dim FP1 As Integer
Dim DBName As String
Dim i As Integer
On Local Error GoTo ErrHandler

```



```

txtResults.Text = ""
cmdMakeDB_Click
DBName = App.Path & "\billing.mdb"
FP1 = FreeFile
txtFileName.Text = App.Path & "\" & "bill"
Open txtFileName.Text For Input As FP1
Set DB1 = OpenDatabase(DBName, False, False)
Set RS1 = DB1.OpenRecordset("billinfo")
Do Until EOF(FP1)
    With MyRec
        Input #FP1, .sid, .sname, .name, .duedate, .bill, .status
        RS1.AddNew
        RS1.Fields("sid").Value = .sid
        RS1.Fields(2).Value = .sname
        RS1.Fields(3).Value = .name
        RS1.Fields(4).Value = .duedate
        RS1.Fields(5).Value = .bill
        RS1.Fields(6).Value = .status
        RS1.Update
    End With
Loop
RS1.MoveLast
RS1.MoveFirst
For i = 1 To RS1.RecordCount
    With RS1
        txtResults.Text = txtResults.Text & .Fields(0) & " " & .Fields(1) & " " & .Fields(2)
        & " " & .Fields(3) & " " & .Fields(4) & " " & .Fields(5) & " " & .Fields(6) & vbCrLf
        .MoveNext
    End With
Next
Close '
Set DB1 = Nothing
Exit Sub

```

```

ErrorHandler:
If err.Number = 62 Then
MsgBox "the end of the file was reached an it had a linefeed and/or a carriage return(s)
at the end."
Resume Next
Else
MsgBox "There was an error in the Read And Import Into Database procedure. Here is
the error data:" & vbCrLf & err.Number & ": " & err.Description
End If
End Sub

Private Sub cmdMakeDB_Click()
Dim DBE1 As DBEngine
Dim WS1 As Workspace
Dim NewDB As Database
Dim TD1 As TableDef
Dim Field1 As Field
Dim IDX1 As Index
Dim DBName As String
On Local Error GoTo ErrorHandler
DBName = App.Path & "\billing.mdb"
If Len(Dir$(DBName, 16)) Then
Kill DBName
End If
Set WS1 = DBEngine.Workspaces(0)
Set NewDB = CreateDatabase(DBName, dbLangGeneral, dbVersion20)
Set TD1 = NewDB.CreateTableDef("billinfo")
Set IDX1 = TD1.CreateIndex("RefIDX")
IDX1.Primary = True
IDX1.Fields.Append IDX1.CreateField("RefID")
TD1.Indexes.Append IDX1
Set Field1 = TD1.CreateField("RefID", dbLong)
Field1.Attributes = dbAutoIncrField
TD1.Fields.Append Field1

```

```

Set Field1 = TD1.CreateField("sid", dbText, 25)
TD1.Fields.Append Field1
Set Field1 = TD1.CreateField("sname", dbText, 25)
TD1.Fields.Append Field1
Set Field1 = TD1.CreateField("name", dbText, 50)
TD1.Fields.Append Field1
Set Field1 = TD1.CreateField("duedate", dbText, 35)
TD1.Fields.Append Field1
Set Field1 = TD1.CreateField("bill", dbText, 35)
TD1.Fields.Append Field1
Set Field1 = TD1.CreateField("status", dbText, 10)
TD1.Fields.Append Field1
NewDB.TableDefs.Append TD1
Set NewDB = Nothing
Set TD1 = Nothing
Set Field1 = Nothing
Set IDX1 = Nothing
Exit Sub
ErrorHandler:
MsgBox "There was an error in the Make Database procedure. Here is the error data:"
& vbCrLf & err.Number & ": " & err.Description
Exit Sub
End Sub

Private Sub cmdReadDisplay_Click()
Dim FP1 As Integer
Dim LB As String
Dim fname As String
Dim lName As String
Dim sAddress As String
Dim scity As String
Dim sZip As String
txtResults.Text = ""
FP1 = FreeFile

```



```
txtFileName.Text = App.Path & "\" & "bill"
```

```
On Local Error GoTo ER1
```

```
Open txtFileName.Text For Input As FP1
```

```
Do Until EOF(FP1)
```

```
With MyRec
```

```
Input #FP1, .sid, .sname, .name, .duedate, .bill, .status
```

```
txtResults.Text = txtResults.Text & .sid & " " & .sname & " " & .name & " " &  
.duedate & " " & .bill & " " & .status & vbCrLf
```

```
End With
```

```
Loop
```

```
Close #FP1
```

```
Exit Sub
```

```
ER1:
```

```
If err.Number = 62 Then
```

```
MsgBox "End of file " & txtFileName.Text & " has been reached and there was a  
linefeed and/or carriage return at the end!"
```

```
Exit Sub
```

```
End If
```

```
End Sub
```

## **8. Encrypt / decrypt file window code ( frmencdec.frm )**

```
Dim openfile
```

```
Dim a(30), b(10), aa As String
```

```
Dim bb, u As String
```

```
Dim cc, ree As Double
```

```
Dim t, f, re, Y As Double
```

```
Dim ann, anss As String
```

```
Private Sub Command1_Click()
```

```
Dim FNum As Integer
```

```
Dim txt As String
```

```
RichTextBox2.Text = ""
```

```
RichTextBox1.Text = ""
```

```

On Error GoTo FileError
CommonDialog1.CancelError = True
CommonDialog1.Flags = cdlOFNFileMustExist
CommonDialog1.DefaultExt = "TXT"
CommonDialog1.Filter = "Text files|*.TXT|All files|*.*"
CommonDialog1.ShowOpen
FNum = FreeFile
Open CommonDialog1.FileName For Input As #1
txt = Input(LOF(FNum), #FNum)
Close #FNum
RichTextBox1.Text = txt
openfile = CommonDialog1.FileName
Exit Sub
FileError:
If err.Number = cdlCancel Then Exit Sub
MsgBox "Unkown error while opening file " & CommonDialog1.FileName
openfile = ""
End Sub

Private Sub Command2_Click()
f = 0
Command2.Enabled = False
Command3.Enabled = False
ans = InputBox("Enter Encryption code (less than 10 digits):")
length = Len(ans)
ann = ""
'-----
For p = 1 To length
ann = ann & Chr(Asc(Mid(ans, p, 1)) + 7)
Next
'-----
If length > 0 And length < 10 Then
t = Len(RichTextBox1.Text)
RichTextBox2.Text = ""

```

```

For i = 1 To t
    bb = Mid(RichTextBox1.Text, i, 1)
    cc = Asc(bb)
    u = Chr(cc + 10)
    RichTextBox2.Text = RichTextBox2.Text & u
Next
RichTextBox2.Text = RichTextBox2.Text & ann & length
Command4.Enabled = True
Else
    MsgBox "Either password is empty or exceeds 9 digits"
    Command2.Enabled = True
End If
End Sub

Private Sub Command3_Click()
    f = 0
    Command3.Enabled = False
    Command2.Enabled = False
    anss = InputBox("Enter decryption code:")
    length = Len(anss)
    If length > 0 Then
        For i = 1 To length
            b(i) = Chr(Asc(Mid(anss, i, 1)) + 7)
        Next
        t = Len(RichTextBox1.Text)
        RichTextBox2.Text = ""
        x = Mid(RichTextBox1.Text, t - 2, 1)
        x = Val(x)
        Y = x
        For i = t - 3 - Y + 1 To t - 3
            a(i - (t - Y - 3)) = Mid(RichTextBox1.Text, i, 1)
        Next
        cou = 0
        For i = 1 To Y

```



```

If a(i) <> b(i) Then
    cou = cou + 1
End If
Next
If cou > 0 Then
    MsgBox "wrong code"
    RichTextBox1.Text = ""
Else
    'End
For i = 1 To t - Y - 3
    bb = Mid(RichTextBox1.Text, i, 1)
    uu = Asc(bb) - 10
    u = Chr(uu)
    RichTextBox2.Text = RichTextBox2.Text & u
Next
Command4.Enabled = True
Command3.Enabled = True
End If
End If
End Sub

Private Sub Command4_Click()
    Dim FNum As Integer
    Dim txt As String
    If MsgBox("Are you sure to save the encrypted data?", vbYesNo) = vbYes Then
        On Error GoTo FileError
        CommonDialog1.CancelError = True
        CommonDialog1.Flags = cdlOFNOverwritePrompt
        CommonDialog1.DefaultExt = "TXT"
        CommonDialog1.Filter = "Text files|*.TXT|All files|*.*"
        CommonDialog1.ShowSave
        FNum = FreeFile
        Open CommonDialog1.FileName For Output As #1
        Print #FNum, RichTextBox2.Text
    
```

```
Close #FNum
openfile = CommonDialog1.FileName
Exit Sub
FileError:
If err.Number = cd1Cancel Then Exit Sub
MsgBox "Unkown error while saving file " & CommonDialog1.FileName
openfile = ""
End If
End Sub
```

```
Private Sub Command5_Click()
RichTextBox1.Text = ""
RichTextBox2.Text = ""
Command4.Enabled = 0
End Sub
```

```
Private Sub Command6_Click()
Unload Me
End Sub
```

```
Private Sub Form_Load()
Command2.Enabled = 0
Command3.Enabled = 0
Command4.Enabled = 0
End Sub
```

```
Private Sub RichTextBox1_Change()
If Len(RichTextBox1.Text) > 3 Then
Command2.Enabled = True
Command3.Enabled = True
End If
End Sub
```

## 9. Send bill window code ( frmSender.frm )

Private file As String

Private Reset As Boolean

Private Sub BNS\_Close()

On Error Resume Next

BNS.Close

End Sub

Private Sub BNS\_DataArrival(ByVal bytesTotal As Long)

Dim leng As String, x As String

leng = FileLen(file)

Open file For Binary Access Read As #1

If leng > 102400 Then

'LARGE FILE > 10 KB

Dim Y As String, c As Long, iB As Long

Do Until c = leng

If c + 102400 <= leng Then

'Single 124000 to take

Y = Input(102400, 1)

c = c + 102400

Else

Y = Input(leng - c, 1)

c = leng

End If

x = x & Y

DoEvents

BState = "Opening file " & c & " bytes out of " & leng

DoEvents

Loop

Else

x = Input(LOF(1), 1)

End If



' Done with input

BNS.SendData x

Close #1

End Sub

Private Sub BNS\_Error(ByVal Number As Integer, Description As String, ByVal Scode  
As Long, ByVal Source As String, ByVal HelpFile As String, ByVal HelpContext As  
Long, CancelDisplay As Boolean)

BNS.Close

End Sub

Private Sub cmdConnect\_Click()

Dim host As String

host = InputBox("Insert destination IP:")

If host = "" Then Exit Sub

If Combo1.Text = "Is Bank" Then MsgBox "is secildi", vbInformation, "Message"

If Combo1.Text = "Turk Bank" Then MsgBox "turk secildi", vbInformation,  
"Message"

file = App.Path & "\bill"

If file = "" Then Exit Sub

BNS.Close

BNS.RemoteHost = host

BNS.RemotePort = 50

BNS.Connect

wait:

DoEvents

If BNS.State <> 7 Then GoTo wait

On Error GoTo error

BNS.SendData FileLen(file)

Exit Sub

error:

MsgBox err.Description

BNS.Close

End Sub

```
Private Sub cmdExit_Click()
```

```
Me.Hide
```

```
End Sub
```

```
Private Sub cmdReciever_Click()
```

```
Select Case cmdReciever.Caption
```

```
Case "Enable File Reciever"
```

```
'WNS.LocalPort = 50
```

```
WNS.Listen
```

```
Case "Disable File Reciever"
```

```
WNS.Close
```

```
End Select
```

```
End Sub
```

```
Private Sub Command1_Click()
```

```
Unload Me
```

```
End Sub
```

```
Private Sub Form_Load()
```

```
Combo1.AddItem "Is Bank"
```

```
Combo1.AddItem "Turk Bank"
```

```
Combo1.AddItem "Akbank"
```

```
End Sub
```

```
Private Sub tmrState_Timer()
```

```
Select Case WNS.State
```

```
Case 2
```

```
status = "Reciever Listening"
```

```
'Status.ForeColor = RGB(55, 175, 55)
```

```
If cmdReciever.Enabled = False Then cmdReciever.Enabled = True
```

```
If LCase(Left(cmdReciever.Caption, 6)) = "disabl" Then GoTo doagain
```

```
cmdReciever.Caption = "Disable File Reciever"
```

```
Case 6 Or 7
```

```

status = "Recieving Data"
cmdReciever.Enabled = False
'Status.ForeColor = vbRed
Case 0
status = "Reciever Disabled"
If cmdReciever.Enabled = False Then cmdReciever.Enabled = True
'Status.ForeColor = vbBlue
If LCase(Left(cmdReciever.Caption, 6)) = "enable" Then GoTo doagain
cmdReciever.Caption = "Enable File Reciever"
End Select
doagain:
Select Case BNS.State
Case 0
BState = ""
cmdConnect.Enabled = True
Case sckConnecting
BState = "Connecting..."
cmdConnect.Enabled = False
Case 7
cmdConnect.Enabled = False
End Select
End Sub

```

```

Private Sub WNS_ConnectionRequest(ByVal requestID As Long)
WNS.Close
WNS.Accept requestID
Reset = True
End Sub

```

```

Private Sub WNS_DataArrival(ByVal bytesTotal As Long)
Static BC As Long
Static Second As Boolean
Dim x As String, xC As Long
If Reset Then BC = 0: Second = False: x = "": Reset = False

```



```

If Not Second Then
Call WNS.GetData(xC, vbLong, bytesTotal)
If xC = 0 Then WNS.Close: Exit Sub
Second = True
BC = xC
Dim res As VbMsgBoxResult
res = MsgBox("Accept incoming file (" & BC & ") bytes?", vbQuestion + vbYesNo)
If res = vbNo Then WNS.Close: Exit Sub
WNS.SendData "ok"
Else
If bytesTotal <> BC Then Exit Sub
'x = InputBox("Insert path where to save the file:")
Open bill For Binary Access Write As #1
Dim Y As String
Call WNS.GetData(Y, vbString, bytesTotal)
Put #1, , Y
Close #1
WNS.Close
WNS.Listen
MsgBox "Done"
End If
End Sub

```

```

Private Sub WNS_Error(ByVal Number As Integer, Description As String, ByVal
Scode As Long, ByVal Source As String, ByVal HelpFile As String, ByVal
HelpContext As Long, CancelDisplay As Boolean)
WNS.Close
WNS.Listen
End Sub

```

#### **10. Make backup window code ( frmback.frm )**

```

Private Sub Command1_Click()
On Error GoTo theo
Dim a, b, c

```

```

Beep
c = MsgBox("Insert a Disk in Drive a:\", vbInformation)
Rich1.FileName = App.Path + "\dbbilling.mdb"
Rich2.FileName = App.Path + "\Pas.mdb"
a = FreeFile
Open "a:\dbbilling.mdb" For Output As a
Print #1, Rich1.Text
Close a
b = FreeFile
Open "a:\Pas.mdb" For Output As b
Print #1, Rich2.Text
Close b
Exit Sub
theo:
MsgBox err.Description, vbCritical
Exit Sub
End Sub

```

```

Private Sub Command2_Click()

```

```

Unload Me

```

```

End Sub

```

## **11. Change password window code ( Change.frm )**

```

Private Sub Form_Load()

```

```

Data1.Visible = False

```

```

Data1.DatabaseName = App.Path + "\Pas.mdb"

```

```

Data1.RecordSource = ("select * from user")

```

```

End Sub

```

```

Private Sub Label2_Click()

```

```

On Error Resume Next

```

```

If Frame3.Visible = True Or Frame2.Visible = True Then

```

```

Data1.Recordset.CancelUpdate

```

```

Frame1.Visible = True

```

Frame2.Visible = True

Text1.Text = ""

Text2.Text = ""

Change.Height = 2340

Unload Change

End If

End Sub

Private Sub Text1\_KeyPress(KeyAscii As Integer)

If KeyAscii = 13 Then

If LCase(Text1.Text) = "verify" Then

Change.Height = 4890

Else

Text2.SetFocus

SendKeys "{home}+{end}"

End If

End If

End Sub

Private Sub Text2\_KeyPress(KeyAscii As Integer)

If KeyAscii = 13 Then

If LCase(Text1.Text) = "add" And LCase(Text2.Text) = "add" Then

Frame1.Visible = False

Text3.SetFocus

Else

Data1.RecordSource = ("select \* from User where password='" & Text2.Text & "'")

Data1.Refresh

If Text5.Text = "" Then

MsgBox "Invalid Username and Password!!!", vbCritical, "Error"

Text1.SetFocus

SendKeys "{home}+{end}"

Else

Frame1.Visible = False

Text3.SetFocus



```

End If
End If
End If
End Sub

Private Sub Text3_KeyPress(KeyAscii As Integer)
If KeyAscii = 13 Then
LCase (Text3.Text)
Text4.SetFocus
End If
End Sub

Private Sub Text4_KeyPress(KeyAscii As Integer)
If KeyAscii = 13 Then
Data1.RecordSource = ("select * from User where password='" & Text4.Text & "'")
Data1.Refresh
If Text5.Text = "" Then
If Text1.Text = "add" Then
LCase (Text4.Text)
Frame2.Visible = False
Data1.Recordset.AddNew
Text5.SetFocus
Else
Data1.RecordSource = ("select * from User where password='" & Text2.Text & "'")
Data1.Refresh
LCase (Text4.Text)
Data1.Recordset.Edit
Frame2.Visible = False
Text5.Text = ""
Text6.Text = ""
Text5.SetFocus
End If
Else
MsgBox "Password Duplicated!!!", vbCritical, "Error"

```

```

Text3.Text = ""
Text4.Text = ""
Text3.SetFocus
Data1.RecordSource = ("select * from User where password='" & Text2.Text & "'")
Data1.Refresh
End If
End If
End Sub

Private Sub Text5_KeyPress(KeyAscii As Integer)
If KeyAscii = 13 Then
Text6.SetFocus
End If
End Sub

Private Sub Text6_KeyPress(KeyAscii As Integer)
On Error GoTo err
If KeyAscii = 13 Then
If LCase(Text5.Text) = Text3.Text And LCase(Text6.Text) = Text4.Text Then
Data1.Recordset.Update
Text1.Text = ""
Text2.Text = ""
Frame1.Visible = True
Frame2.Visible = True
Text1.SetFocus
Data1.RecordSource = ("select* from User order by userid")
Me.Hide
Else
Data1.Recordset.CancelUpdate
MsgBox "Not Valid!!!, Check your Username and Password", vbCritical
Frame2.Visible = True
Text3.SetFocus
Exit Sub
End If

```

End If

err:

MsgBox "Try Again"

End Sub

## 12. Administrator area window code ( frmadmin.frm )

Dim i As Integer

Private Sub Combo1\_Click()

With Data1

.Refresh

.Recordset.MoveFirst

Do Until .Recordset.EOF

If .Recordset.Fields(0) = Combo1.Text Then

Text1.Text = .Recordset.Fields(3)

Text2.Text = .Recordset.Fields(4)

Exit Sub

Else

.Recordset.MoveNext

End If

Loop

End With

End Sub

Private Sub Command1\_Click()

Unload Me

MDIForm1.Show

'Form2.Caption = "Welcome Administrator..."

End Sub

Private Sub Command10\_Click()

Frame3.Visible = False

Frame1.Visible = True

End Sub



```

Private Sub Command11_Click()
Data2.RecordSource = "select * from admin"
Data2.Recordset.MoveFirst
Text3.Text = Data2.Recordset.Fields(0)
Text4.Text = Data2.Recordset.Fields(1)
Text4.SetFocus
Text3.Enabled = False
MsgBox "please edit the password", vbInformation, "HMS"
End Sub

```

```

Private Sub Command12_Click()
With Data2
.RecordSource = "select * from admin"
.Refresh
.Recordset.Edit
.Recordset.Fields(0) = Text3.Text
.Recordset.Fields(1) = Text4.Text
.Recordset.Update
End With
MsgBox "Administrator password has been changed", vbInformation, "HMS"
Command1.SetFocus
End Sub

```

```

Private Sub Command2_Click()
Frame3.Visible = True
Frame1.Visible = False
Text5.SetFocus
End Sub

```

```

Private Sub Command3_Click()
Text1.Enabled = True
Text2.Enabled = True
Command2.Enabled = False

```

```

Command4.Visible = False
Command6.Visible = True
Command3.Enabled = False
End Sub

Private Sub Command4_Click()
MsgBox "Are u sure want to delete user", vbYesNoCancel, "HMS"
Data1.Recordset.Delete
End Sub

Private Sub Command5_Click()
Text1 = ""
Text2 = ""
Command2.Enabled = True
Command3.Enabled = True
Command6.Visible = False
Command4.Visible = True
Command4.Enabled = True
End Sub

Private Sub Command6_Click()
Data1.Recordset.Edit
Data1.Recordset.Fields(3) = Text1.Text
Data1.Recordset.Fields(4) = Text2.Text
Data1.Recordset.Update
MsgBox "User Id or password updated", vbInformation, "HMS"
Command6.Visible = False
Command4.Visible = True
End Sub

Private Sub Command8_Click()
Data1.Recordset.AddNew
Data1.Recordset.Fields(0) = Text5.Text
Data1.Recordset.Fields(1) = Text6.Text

```

```

Data1.Recordset.Fields(2) = Text7.Text
Data1.Recordset.Fields(3) = Text8.Text
Data1.Recordset.Fields(4) = Text9.Text
Data1.Recordset.Update
MsgBox "New User added", vbInformation, "HMS"
'Command8.enable = False
Command10.SetFocus
End Sub

```

```

Private Sub Command9_Click()
Text5 = ""
Text6 = ""
Text7 = ""
Text8 = ""
Text9 = ""
Text5.SetFocus
End Sub

```

```

Private Sub Form_Load()
Data1.DatabaseName = App.Path & "\Pas.mdb"
Data1.RecordSource = "select * from user"

Data2.DatabaseName = App.Path & "\Pas.mdb"
Data2.RecordSource = "select * from admin"
'Data1.Refresh
'Data1.Recordset.MoveFirst
'Do Until Data1.Recordset.EOF
'For i = 0 To 3 'len(.Recordset.BatchSize)
'Combo1.AddItem "Data1.Recordset.Fields(0).Value"
'Data1.Recordset.MoveNext
'Next i
'Loop
Text1.Enabled = False
Text2.Enabled = False

```



Command6.Visible = False

'Command8.Visible = False

Frame3.Visible = False

'Call admindetails

End Sub

Private Sub admindetails()

Text3.Text = Data2.Recordset.Fields(0)

Text4.Text = Data2.Recordset.Fields(1)

Exit Sub

End Sub

### **13. About window code ( frmAbout.frm )**

Option Explicit

Private Sub cmdOK\_Click()

Me.Hide

End Sub

Private Sub Form\_KeyDown(KeyCode As Integer, Shift As Integer)

If KeyCode = 13 Then

Unload Me

End If

End Sub

Private Sub Label4\_Click()

On Error Resume Next

'call Shell("start mailto:taylanunsal@hotmail.com")

Call Shell("C:\Program Files\Outlook Express\msimn.exe,")

End Sub

Private Sub Label4\_MouseMove(Button As Integer, Shift As Integer, x As Single, Y As Single)

Label4.FontUnderline = True

End Sub

#### **14. Deleting Window code ( frmdelete.frm )**

Private Sub Form\_Load()

Animation1.Open App.Path + "\FILEDEL.AVI"

Animation1.Play

End Sub

Private Sub Timer1\_Timer()

On Error Resume Next

Bar1.Value = Bar1.Value + 5

'Label1.Caption = Bar1.Value

If Bar1.Value = 150 Then

Unload frmdelete

End If

End Sub