

NEAR EAST UNIVERSITY



FACULTY OF ECONOMICS AND  
ADMINISTRATIVE SCIENCE

DEPARTMENT OF COMPUTER  
INFORMATION SYSTEMS

2004/2005 SPRING TERM

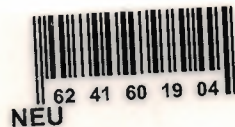
CIS 200  
(Graduation Project)

Subject : ESTATE AGENT

**Submitted To : Department of C.I.S**

**Submitted By : MUSTAFA BAKİ (20012053)**

**LEFKOŞA  
2005**



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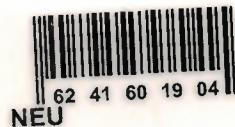
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## **ACKNOWLEDGEMENT**

On the preparation of this project I would like to thank everyone for their help and support.

Specially I would like to thank Dr. Yalçın AKÇALI, Nadire ÇAVUŞ, Mustafa MENEKAY and İlham HÜSEYİNOV for their support and help they proud me throughout this project.

I also would like to thank my family for their help and support potency for being next to me.

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## **ABSTRACT**

This project is about computer technologies it's designed to hold the daily information of the company inputs and outputs of the business. It is designed to satisfy every department's request.

The project is made out of different department Customer, Supplier, Stock, Account, and Report departments enabled the store daily transactions of company.

## INTRODUCTION

I want to prepare a project that is Estate Agents, which is called Agent Rent & Sale system. These Estate Agent is collect house or flat from householder and rent or sale to teh customer. The Agent has a power of a bridge between householder and customer who wants to have a rental house&flat.

This program has four process; these are :

- **Customer Process**
- **House Process**
- **Transaction Process**
- **Owner Process**

**Customer process** In this process, we can entered data like customer id,customer name,customer surname,customer address, and customer phone number.For each customer we give unigue customer (c\_id).

**House process** Include a from for entering data like house\_id,street, area, postcode,type room,rent&sale, price and house picture. Each house has own House\_id(H\_id).It is unigue.

***And House Process include GroupBox.*** This Groupbox show us District of the Lefkosa and Area of the City

**Transaction process** In this process, we can entered data like Transaction\_id, customer\_id, House,\_id, debt, payamount, payment date and cash&due.In this process we can see customer information and house&flat information that store in cash payment or due to payment. For each transaction we give unigue Transaction\_id.

**Owner process** In this process, we can entered data like Householder informatin which house that *who has own house.*

**Report process** has four sub-process, these are:

- **Customer List**
- **House List**
- **Payment Report List**
- **Debt Report List**

In these process, Customer List we can see customer that how many customer are store in database and House List we can see house that how many house are store in database.Allso in Payment Report List can see that customer due to pay or cash payment are listed. Dept Report List can only see dept list.

## **EXPLANATION**

# **ESTATE AGENT SOFTWARE**

### **THE STRUCTURE OF THE PROGRAM**

This software rents houses\_office to their customer it helps the user of the program to calculator the custs of the housess and simplefies the selecting the houses which are for sale and for rent also helps the accounting needs of the user it reports the transactions of houses you can analyse the customers needs buy this program because of the database applications it stores all the customer information into the database debts and customers


*This program is the solution to the estata agent.*

### **TECHNICAL INFORMATION**

This program uses the **ACCESS** for its database applications and coded in **Delphi** and **SQL**



# customer : Table

Field Name	Data Type	Description
 c_name	Number	
c_surname	Text	
c_address	Text	
c_tel	Text	
	Number	

## Field Properties

### General

Field Size Integer

Format Auto

Decimal Places 0

Input Mask No

Caption Yes (No Duplicates)

Default Value

Validation Rule

Validation Text

Required

Indexed

A field name can be up to 64 characters long, including spaces. Press F1 for help on field names.



customer : Table

c_id	c_name	c_surname	c_address	c_tel
1	ndsfk	fkwmj	wkef	23453
T_id	H_id	dept	payamount	pay_date
9	3	100	50	11.02.2004 DUE
10	4	200	0	10.05.2005 CASH
(AutoNumber)	0	0	0	
2	fewsf	ewsf	wesf	35
T_id	H_id	dept	payamount	pay_date
8	2	35	35	12.12.2000 DUE
(AutoNumber)	0	0	0	
0				0

Record: 1 2 of 2



# house : Table

Description

Field Name	Data Type	
H_id	Number	
street	Text	
area	Text	
city	Text	
pcode	Text	
type	Text	
room	Number	
Rent&sale	Text	

Field Properties

## General

## Lookup

15

Field Size

Format

Input Mask

Caption

Default Value

Validation Rule

Validation Text

Required

Allow Zero Length

Indexed

Unicode Compression

IME Mode

IME Sentence Mode

No

Yes

No

Yes

No Control

None

The data type determines the kind of values that users in the field. Press F1 for help on data types.



## house : Table

	H_id	street	area	city	pcode	type	room	Rent&sale	pri
+	1	fsw	sdf	kgk	kg	villa	8	rent	
-	2	tftg	tgfg	gfdg	gdfgd	gfd	545	sale	
	T_id	c_id	dept	payamount	pay_date	cash&due			
	8	2	35	35	12.12.2000	DUE			
*	(AutoNumber)	0	0	0					
+	3	wqef	jfng	jng	jkdg	flat	0	rent	
▶	0						0		



# Transaction : Table

	Field Name	Data Type	Description
?	T_id	AutoNumber	
	c_id	Number	
	H_id	Number	
	dept	Number	
	payamount	Number	
▶	pay_date	Date/Time	
	cash&due	Text	

## Field Properties

### General

Format

Input Mask

Caption

Default Value

Validation Rule

Validation Text

Required

Indexed

IME Mode

IME Sentence Mode

99.99.00;0;\_

No

No

No Control

None

The data type determines the kind of values that users can store in the field. Press F1 for help on data types.



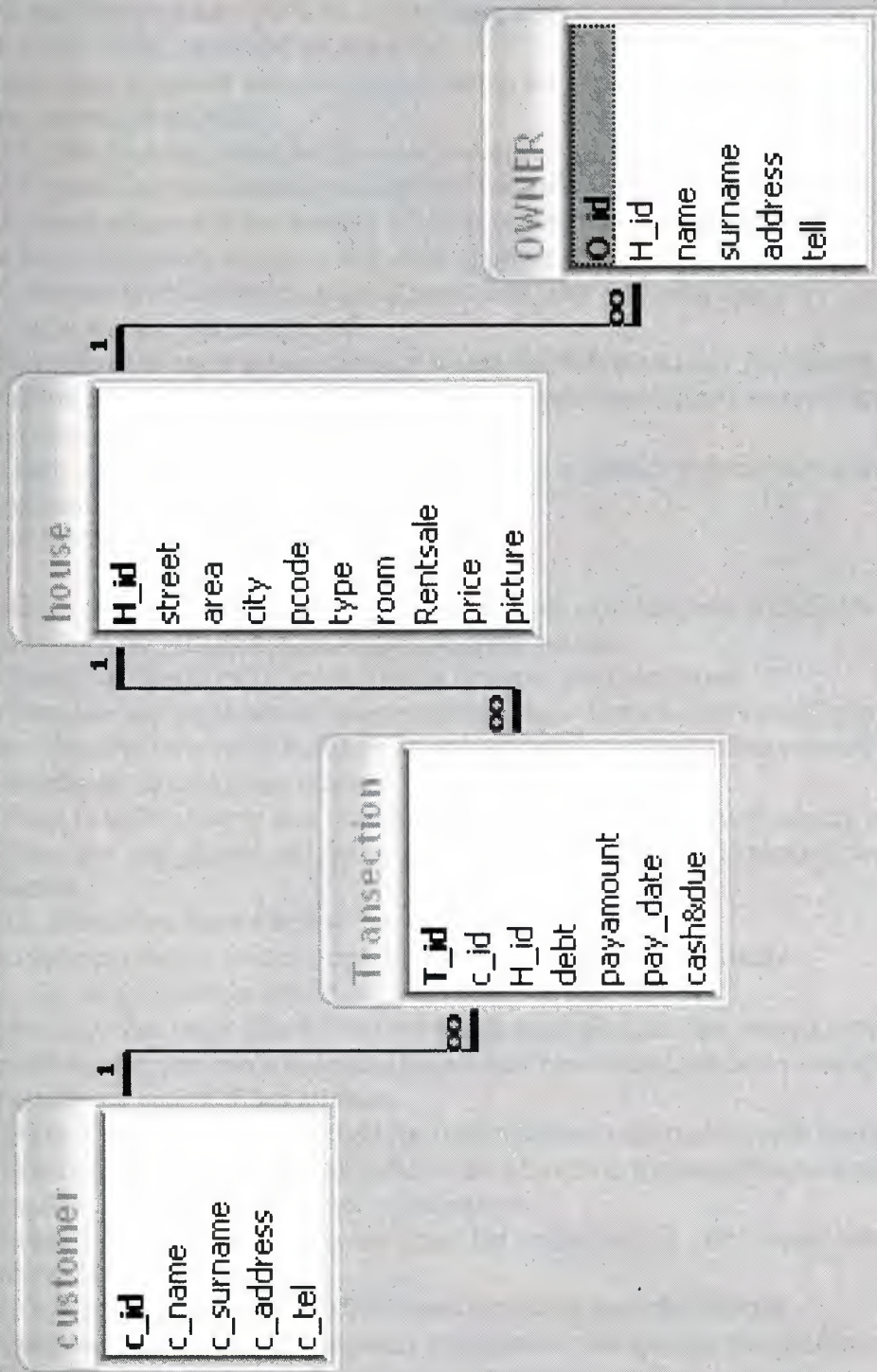
# Transaction : Table

	T_id	c_id	H_id	dept	payamount	pay_date	cash&due
	8	2	2	35	35	12.12.2000	DUE
	9	1	3	100	50	11.02.2004	DUE
Ø	11	3	4	0	300	06.06.2005	CASH
*	(AutoNumber)	0	0	0	0		

Record: 3 of 3



# Relationships



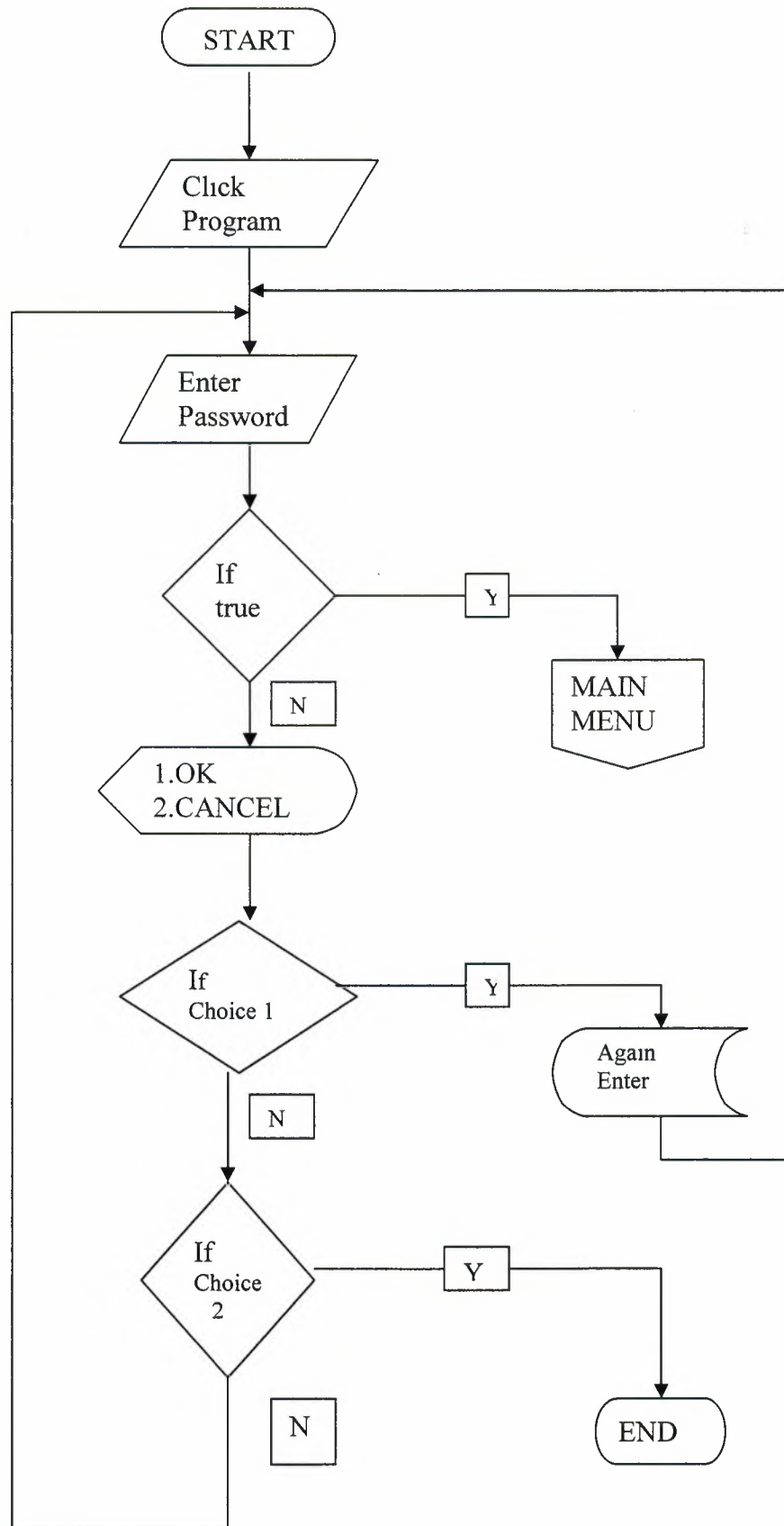


# ***USER MANUAL***

1. Estate Agent Software program are started with 'Enter Program' button .
2. 'Please Enter Password' text are appears and user has to enter password.  
OK is run the program CANCEL is terminate and exit program also if user can enter three times wrong password program exit.
3. Main Menu is appear with two button which are about program and exit. four manus are tables ,reports,about,exit.
  1. Tables includes customer process,house process,transaction process.
  2. Reports includes house list ,customer list ,debt report list and payment report list.
  3. About program is has strcture of program and tecnical information.
  4. Exit is terminate program and close application.
4. Customer process (tables ,reports,about,exit) has text with fields  
c\_id,c\_name,c\_surname,c\_tel.  
Navigator has eight action fanchion which show first and last record,step by step records,save new records,delete records,add new records,update records and new records are cancel if has mistake.  
There are two search botton that used for find customer information with useing custumer id and customer name.  
All records are shown below the window.
5. House process (tables ,reports,about,culculator,exit) has text with fields h\_id,street area, city, pcode,type,room,rent&sale,price, picture.  
Calculator menus call ms calculation to make any calculation.  
Navigator has eight action fanchion which show first and last record,step by step records,save new records,delete records,add new records,update records and new records are cancel if has mistake.  
There is search botton that used for find house information with useing house id  
There are add picture and delete picture bottom action is add picture or delete house picture.  
All records are shown below the window.
6. Customer process (tables ,reports,about,exit) has text with fields  
t\_id,c\_id,h\_id,debt,payment,paye date,cash or due.  
Navigator has eight action fanchion which show first and last record,step by step records,save new records,delete records,add new records,update records and new records are cancel if has mistake.  
There is search botton that used for find customer information with useing custumer id  
There are three dbgrid shown bellow one of them is transaction action are shown another is house and customer informations.
7. Reports Menus has four process house list ,customer list ,debt report list and payment report list.  
House list is listed all house information that are recorded before.  
Customer list is listed all customer information that are recorded before.  
Debt Report list is listed all customer payment that are due to pay.  
Payment Report list is listed all customer cash& due payment.
8. Exit menus has process that back to the main menu just only mein menus exit is terminates and close program.

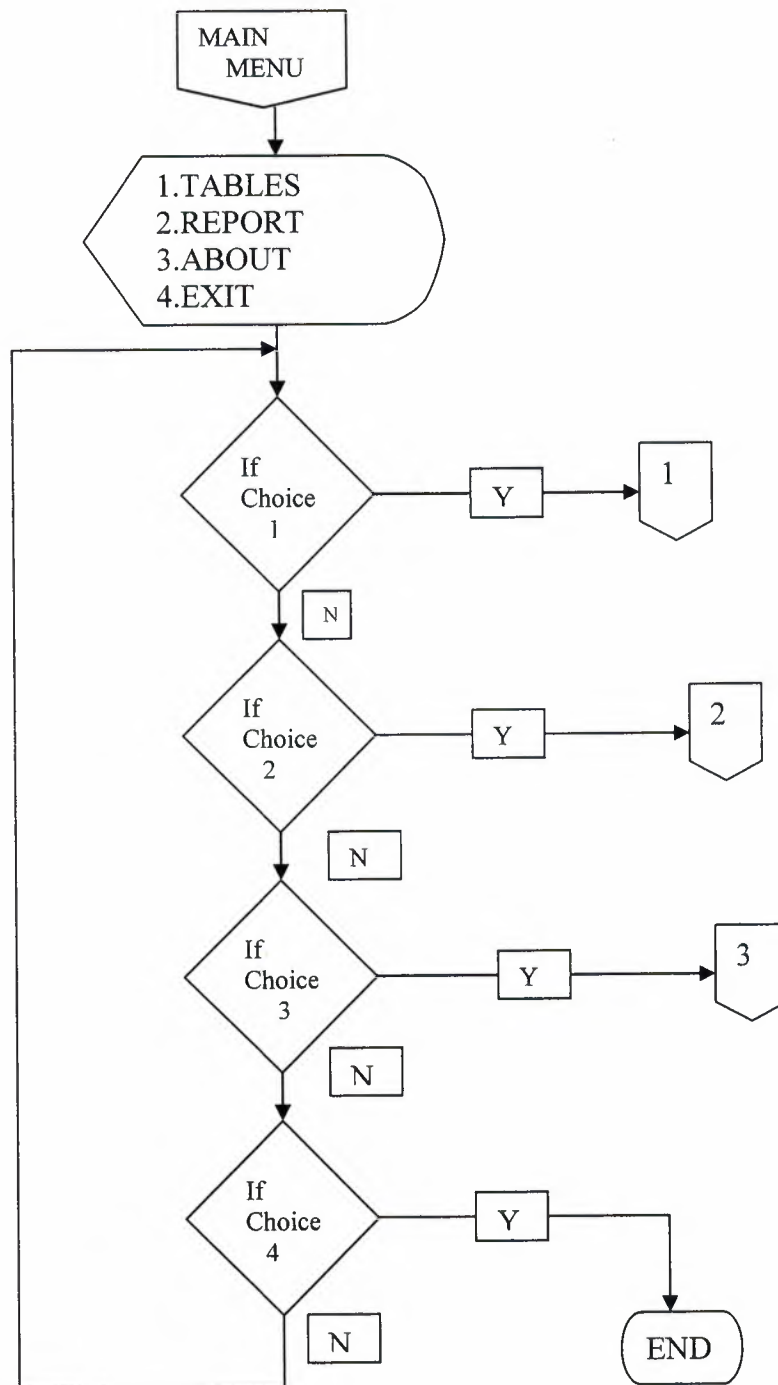
# FLOWCHART

USER ENTER

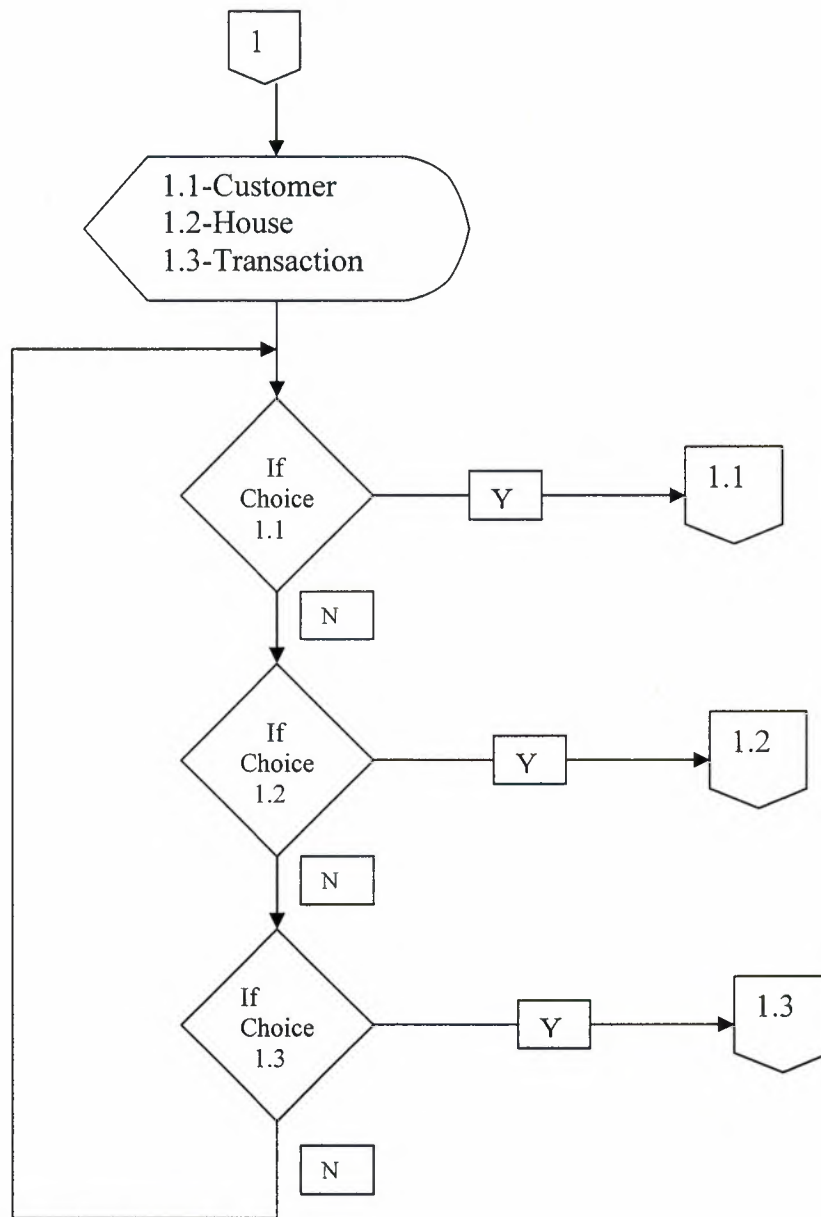




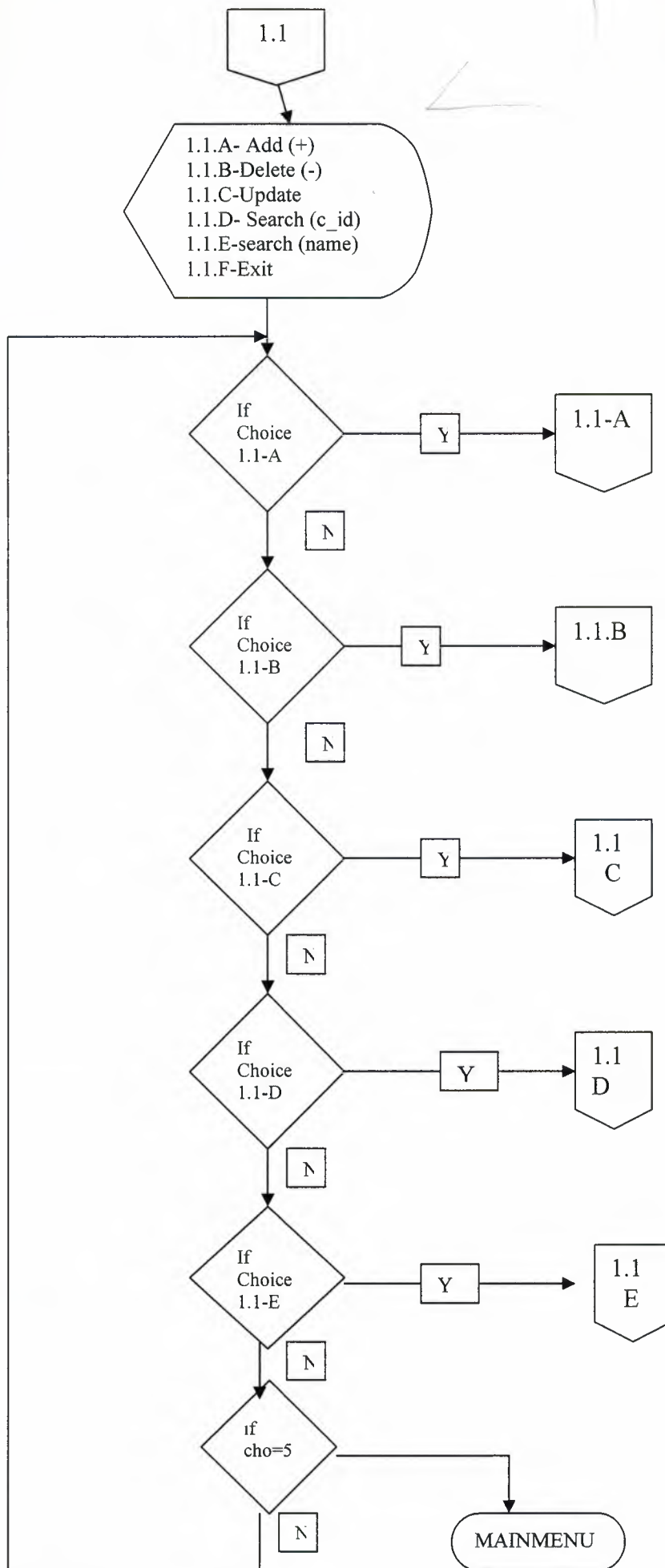
# MAINMENU



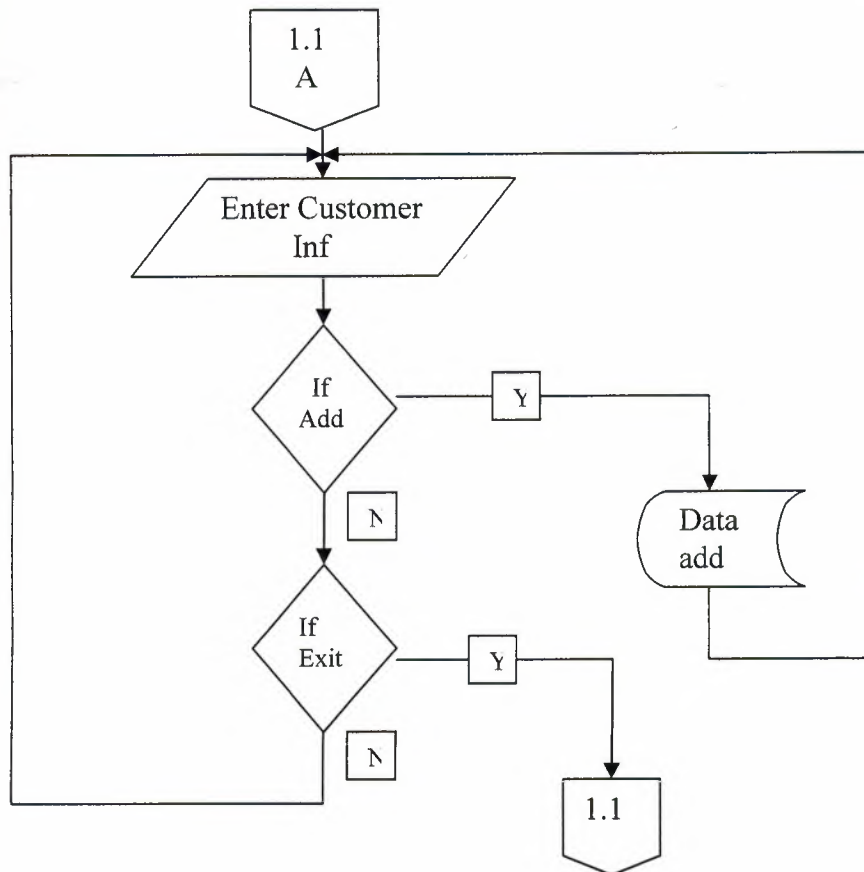
## TABLES



## CUSTOMER

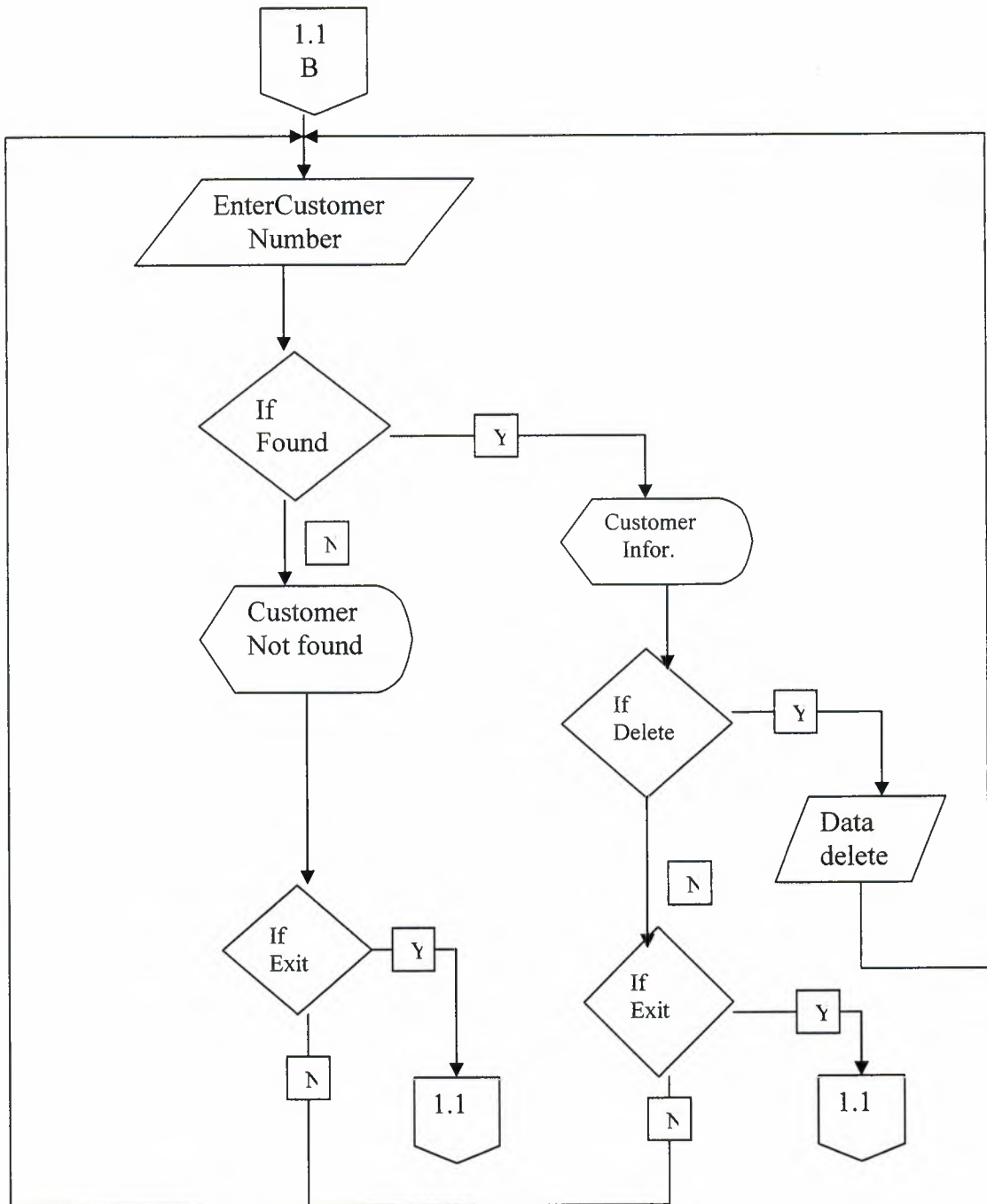


## CUSTOMER ADD

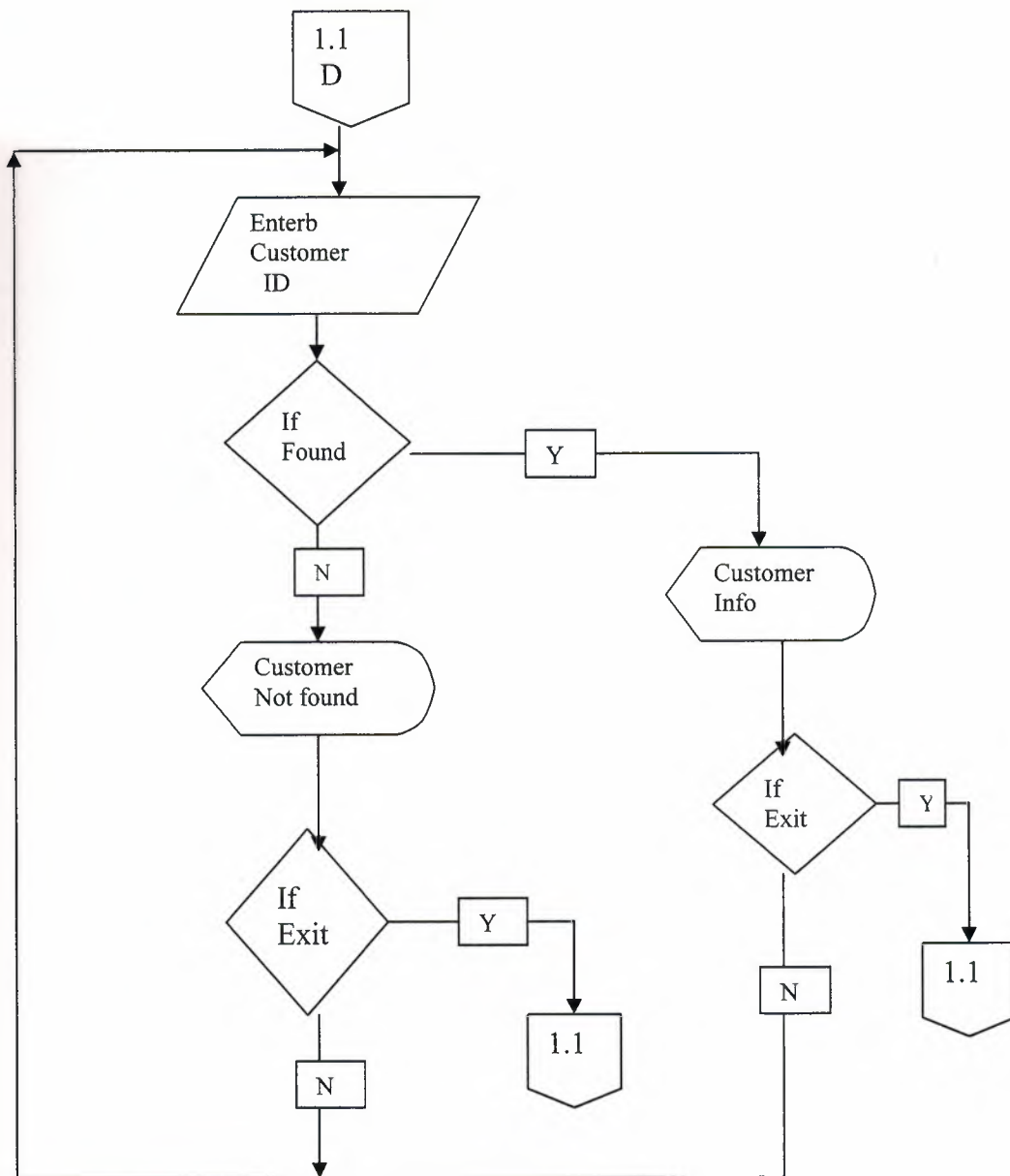




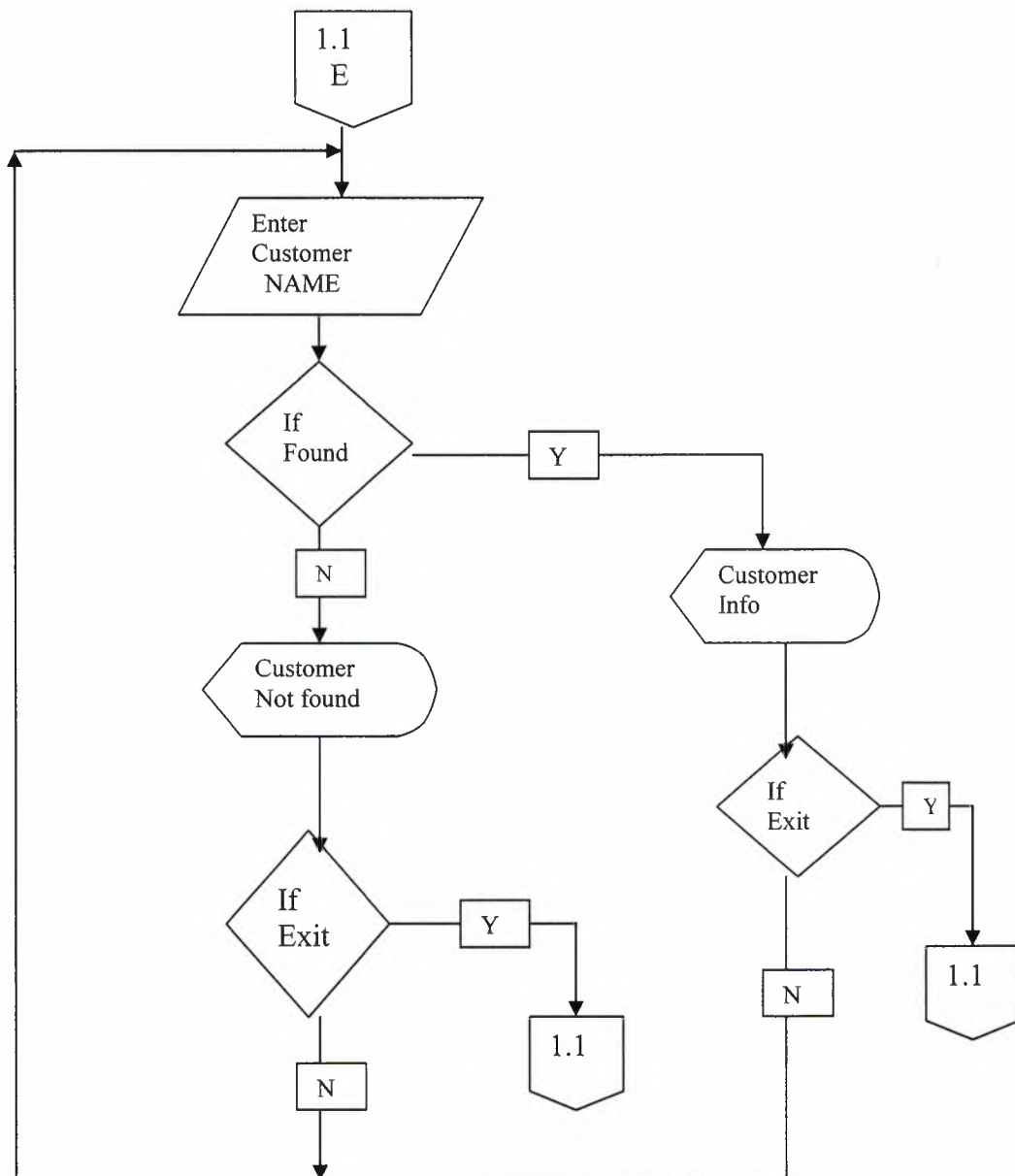
## CUSTOMER DELETE



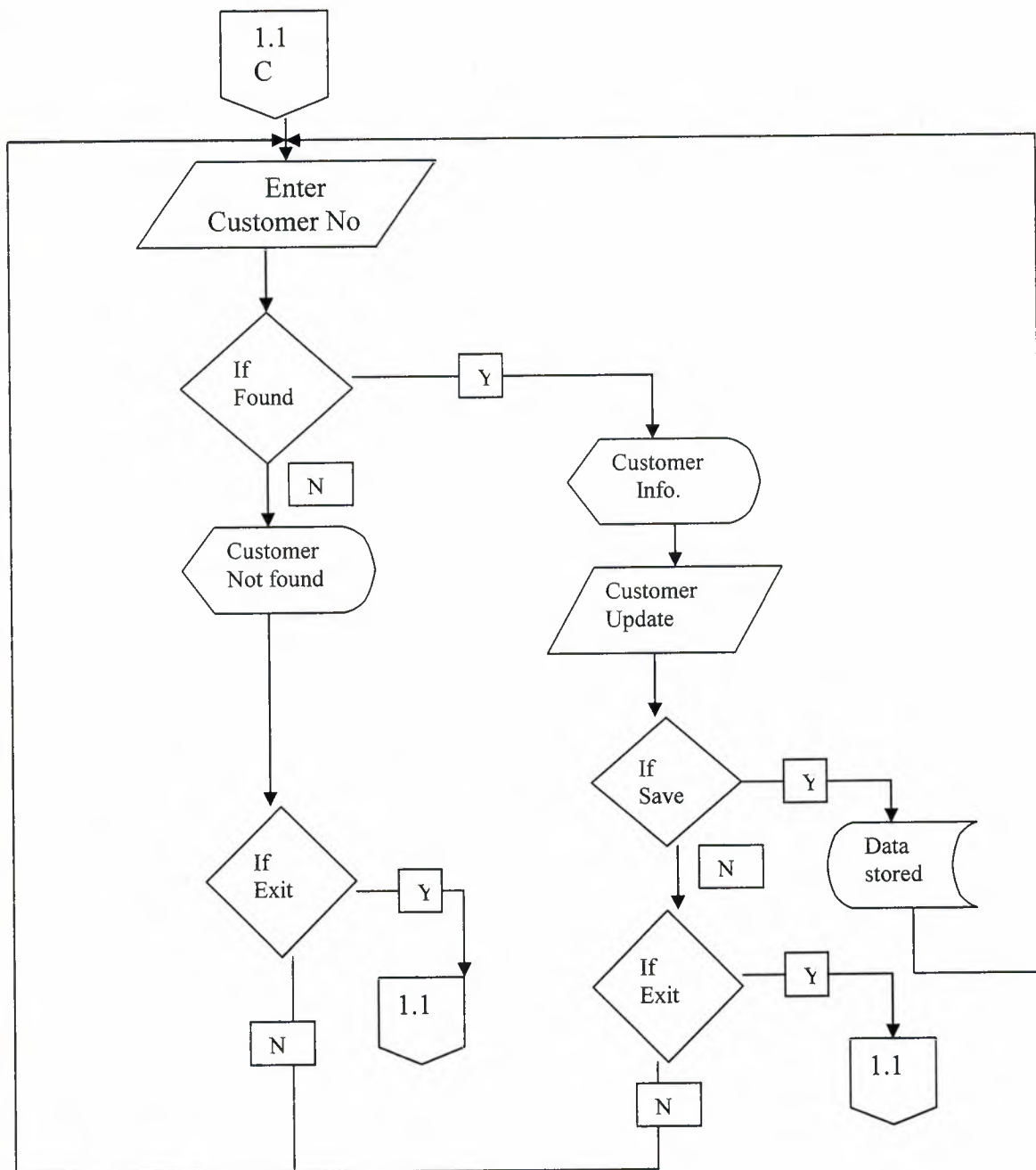
# CUSTOMER SEARCH (C ID)



## CUSTOMER SEARCH (NAME)

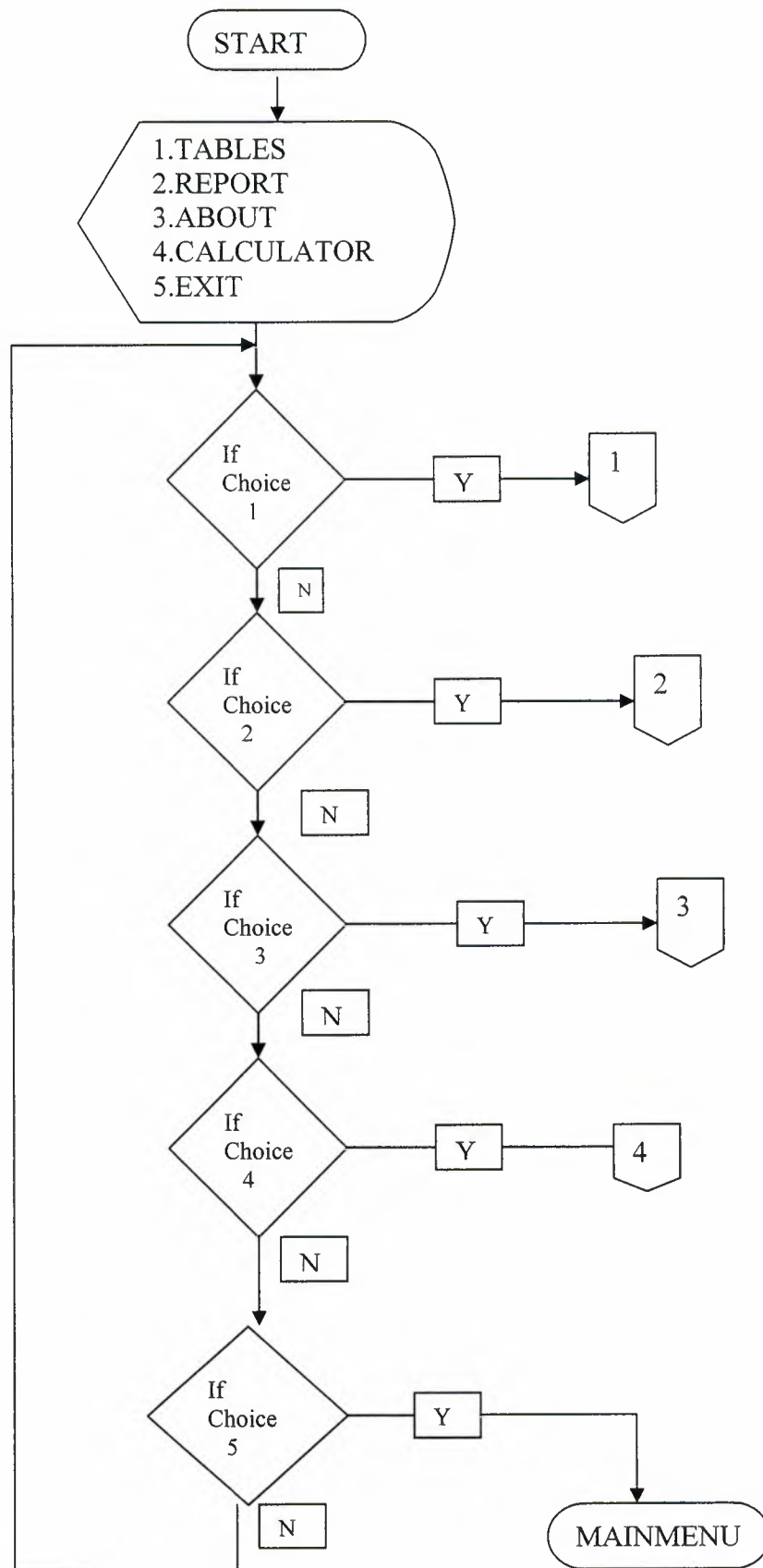


## CUSTOMER UPDATE

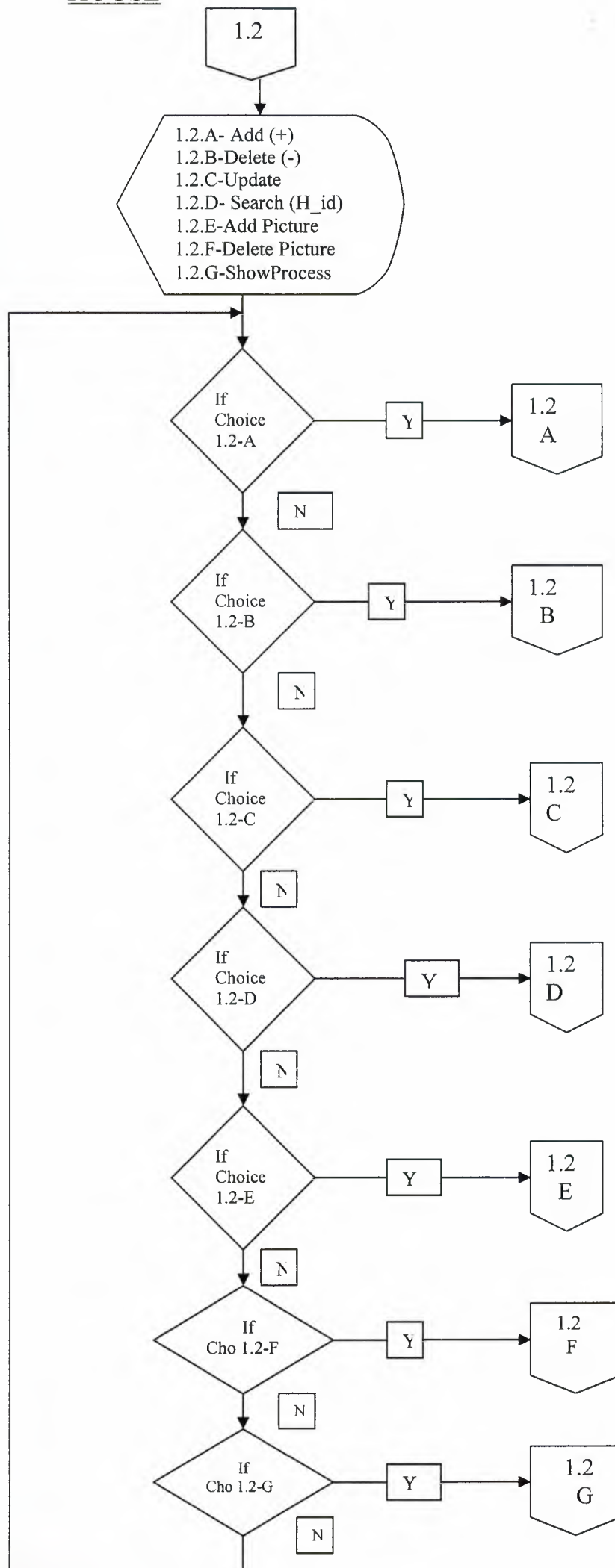




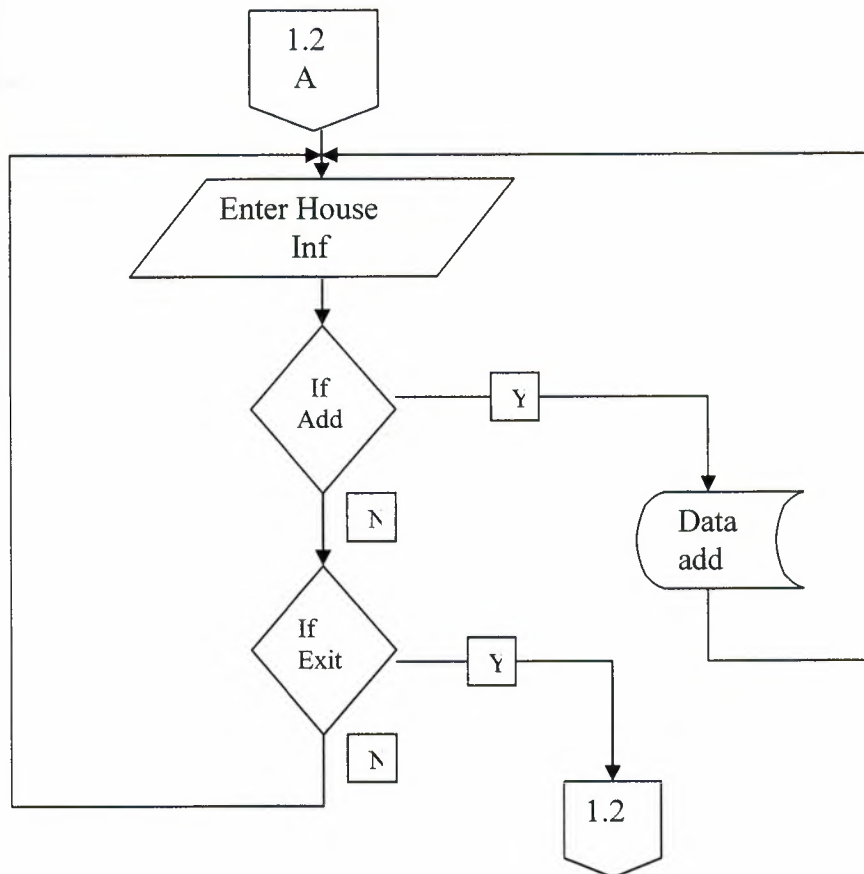
## HOUSE PROCESS



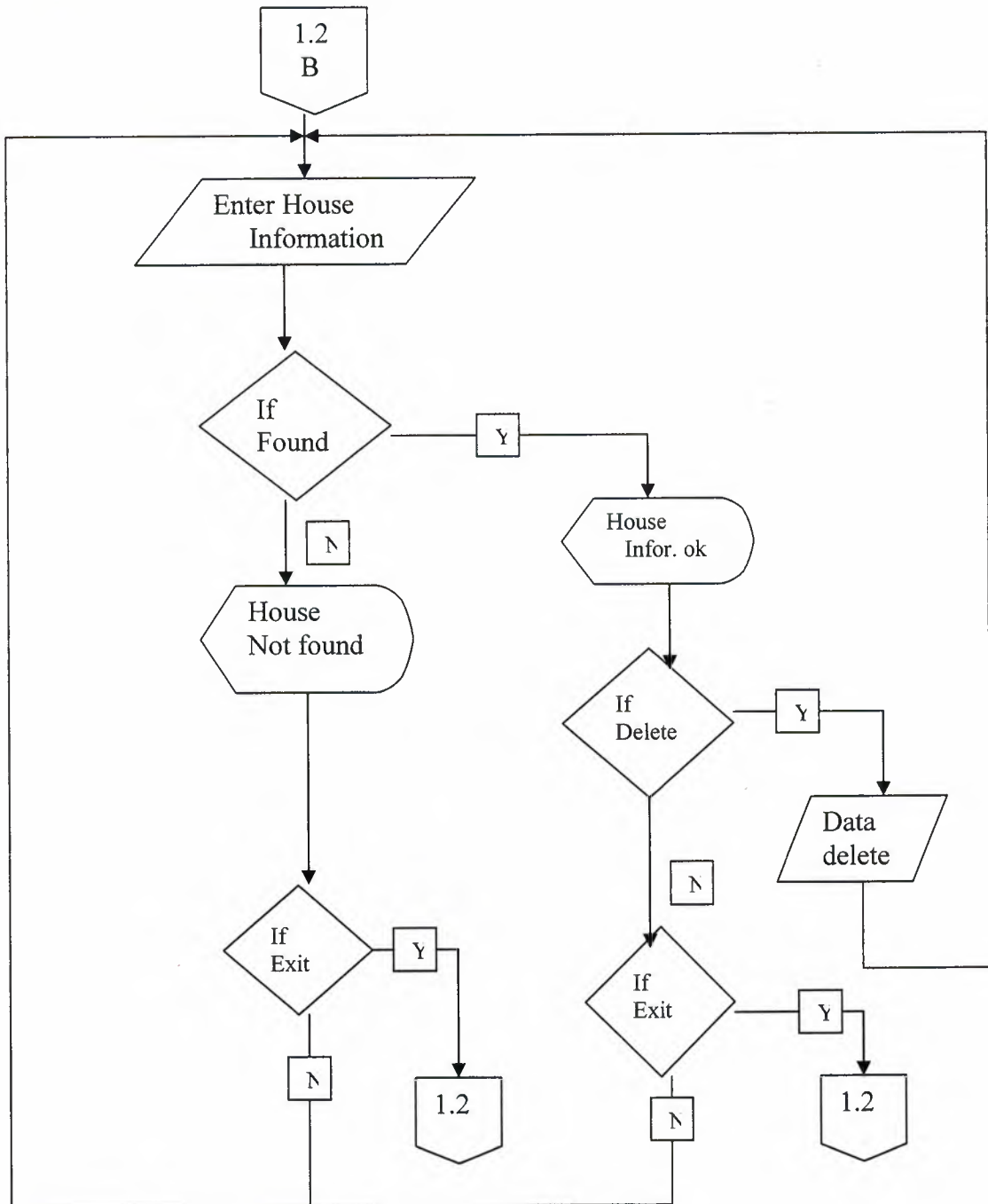
# HOUSE



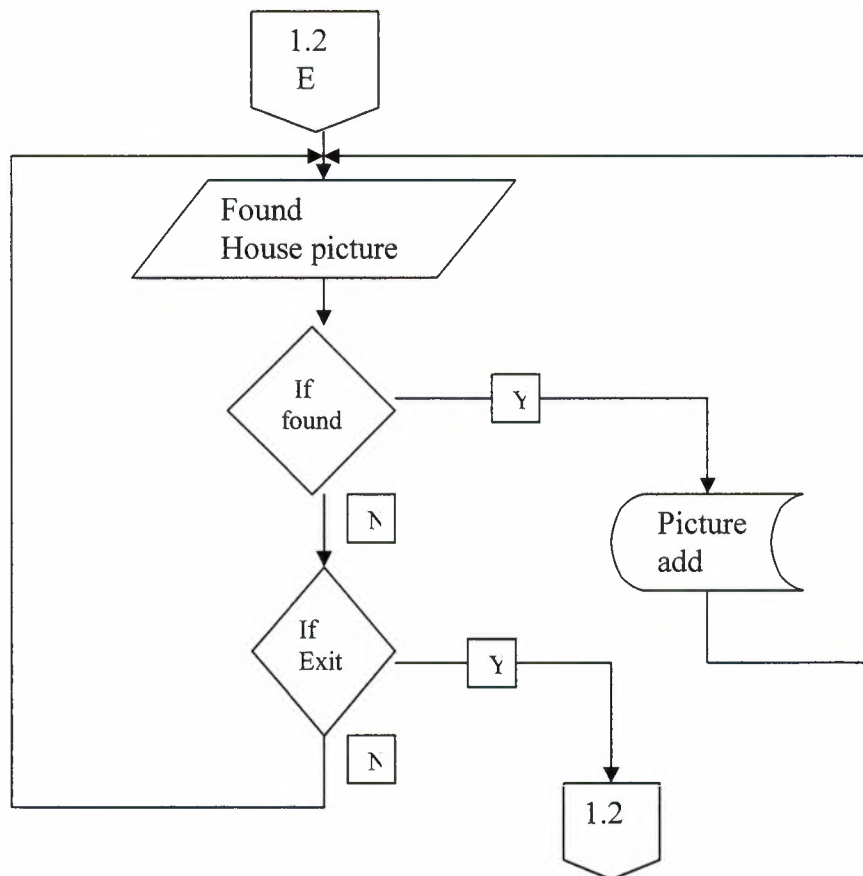
## HOUSE ADD



## HOUSE DELETE

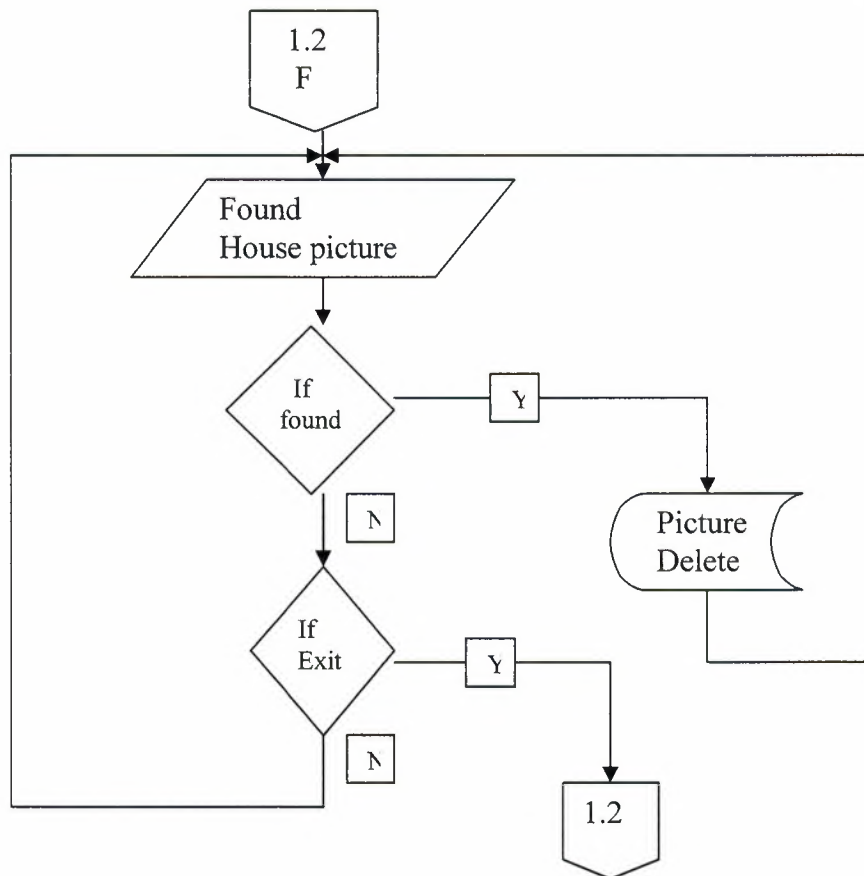


## HOUSE ADD PICTURE

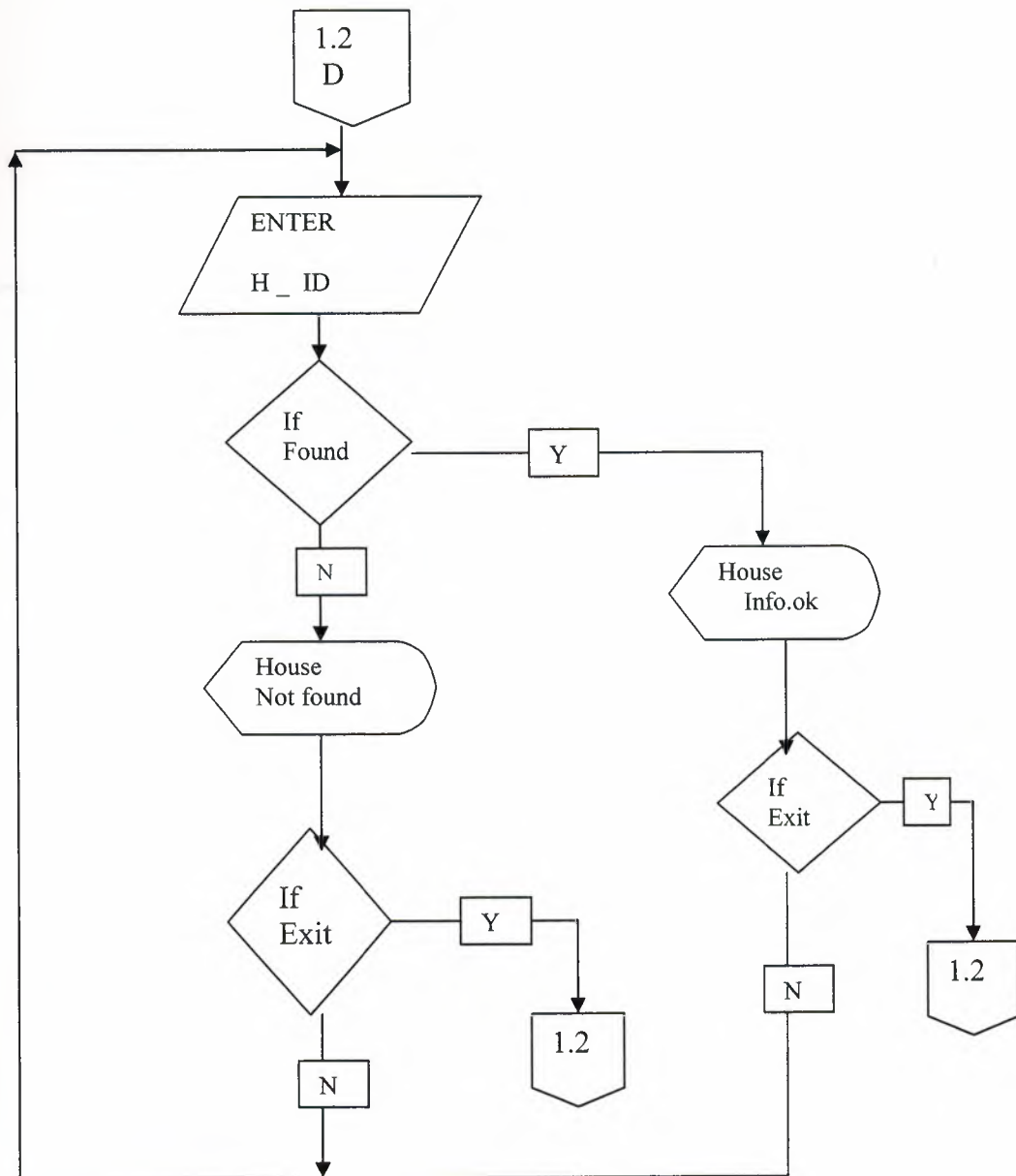




## HOUSE DELETE PICTURE

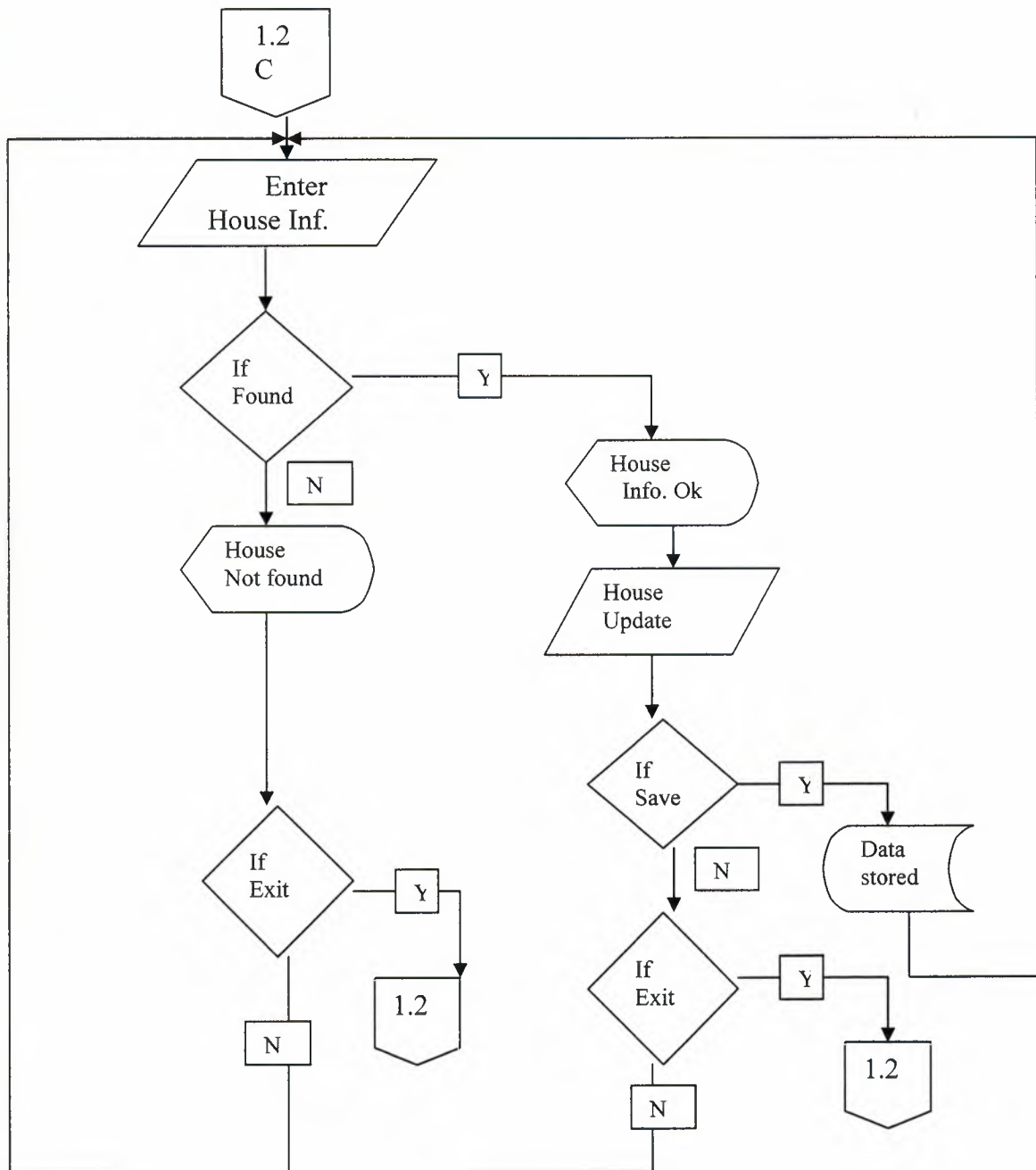


# HOUSE SEARCH (H\_ID)

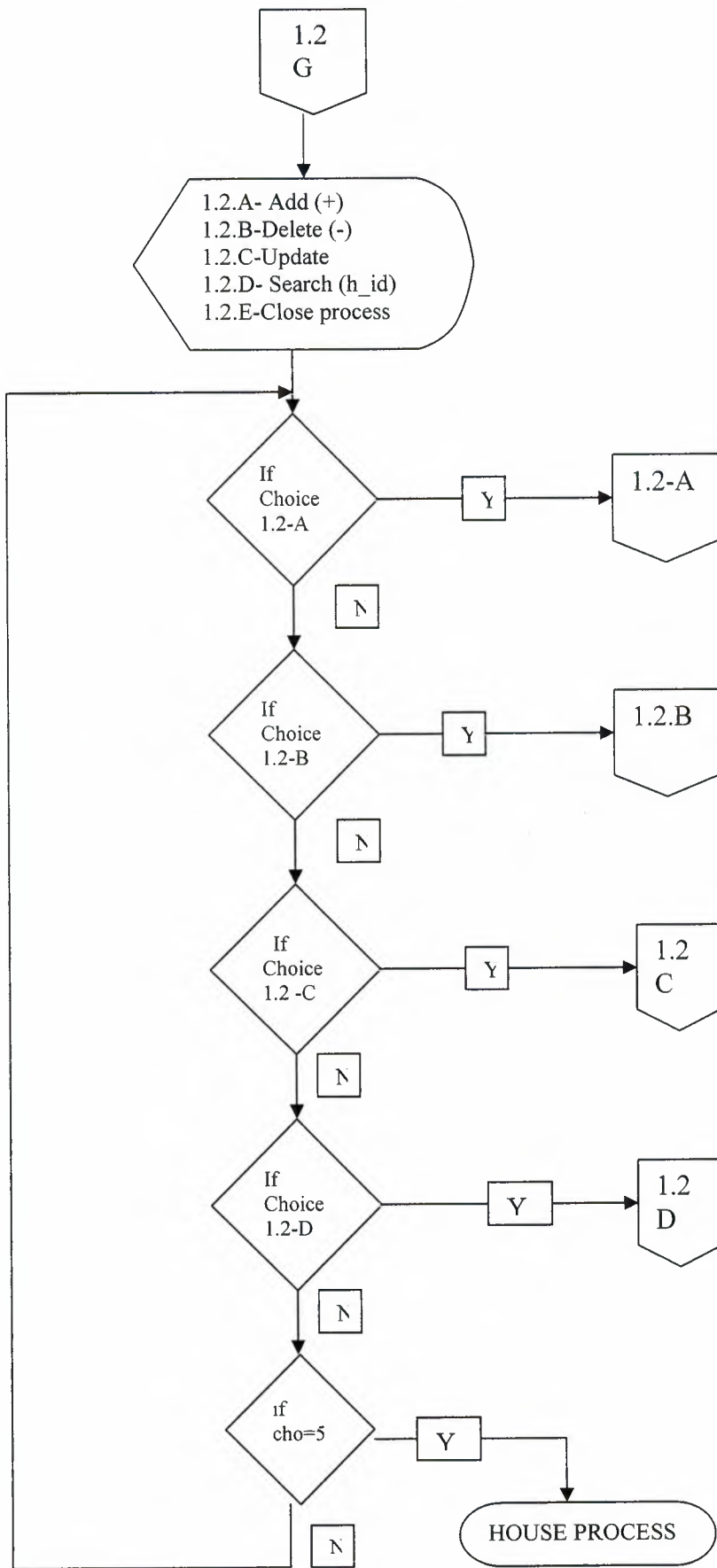




## HOUSE UPDATE

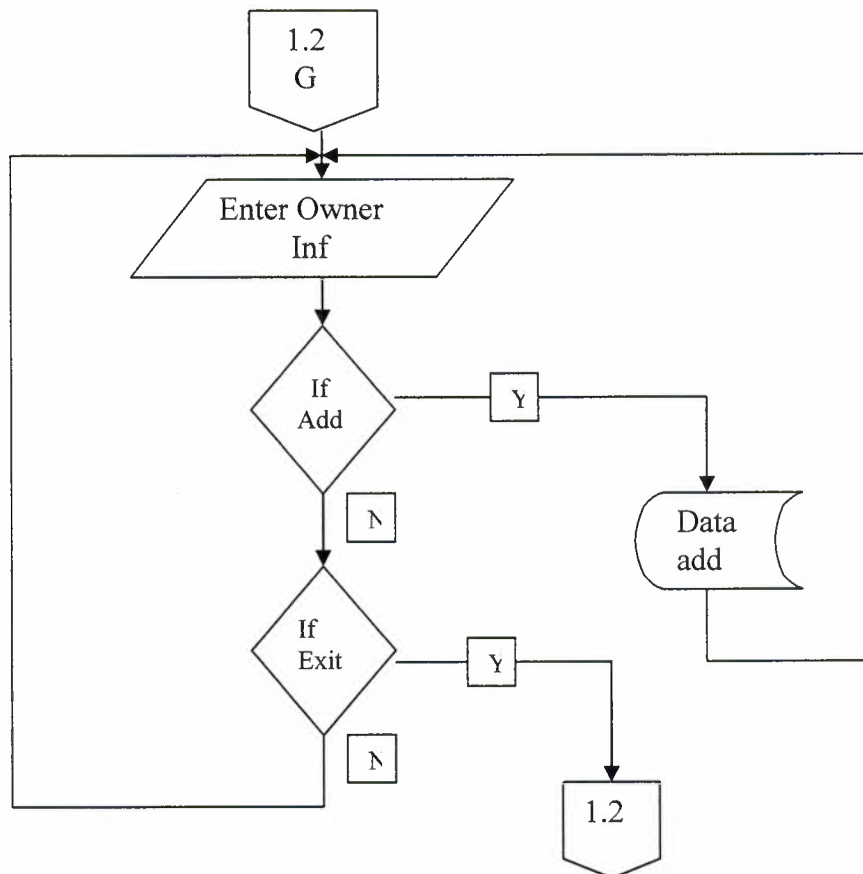


## OWNER PROCESS

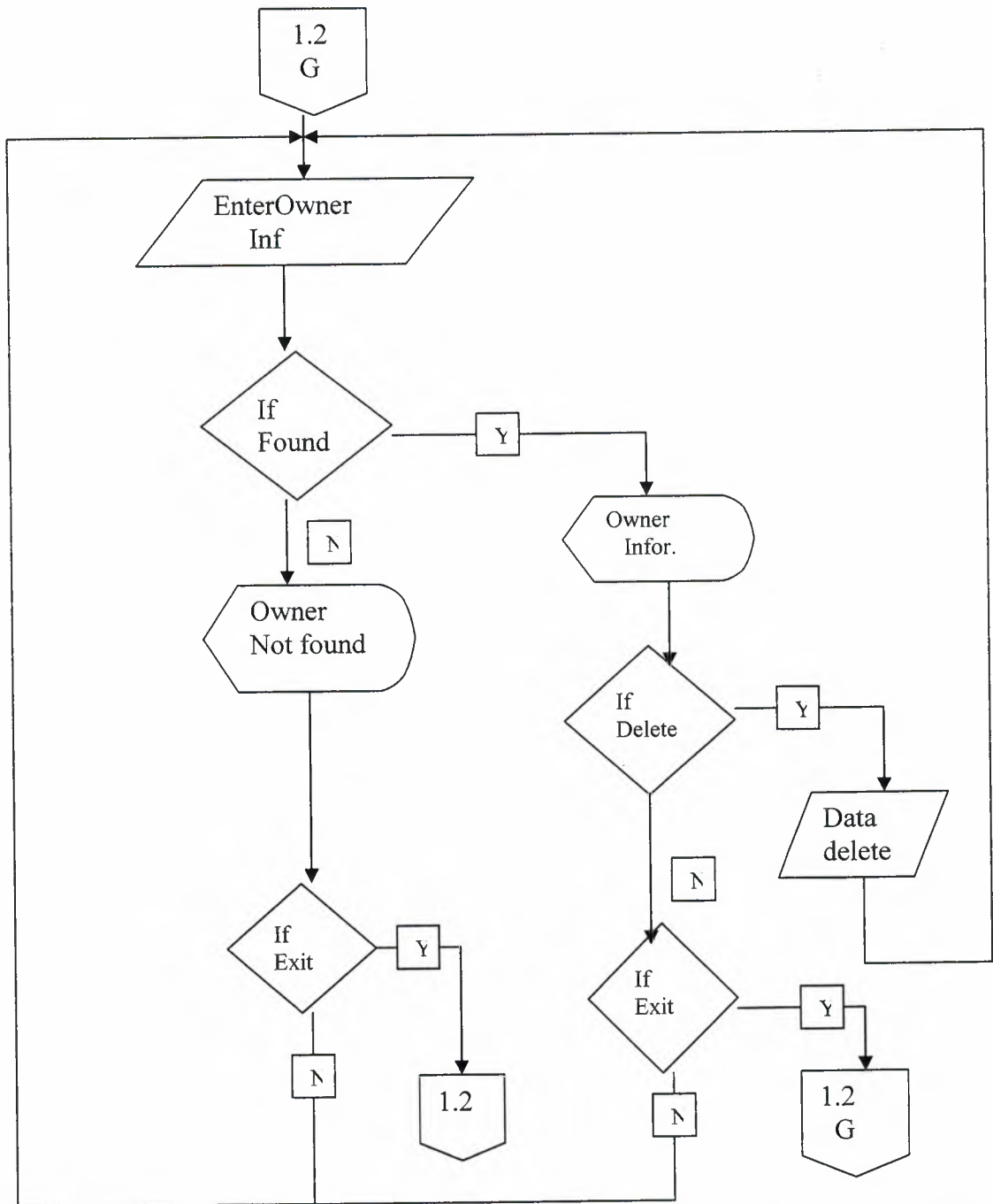




## OWNER ADD

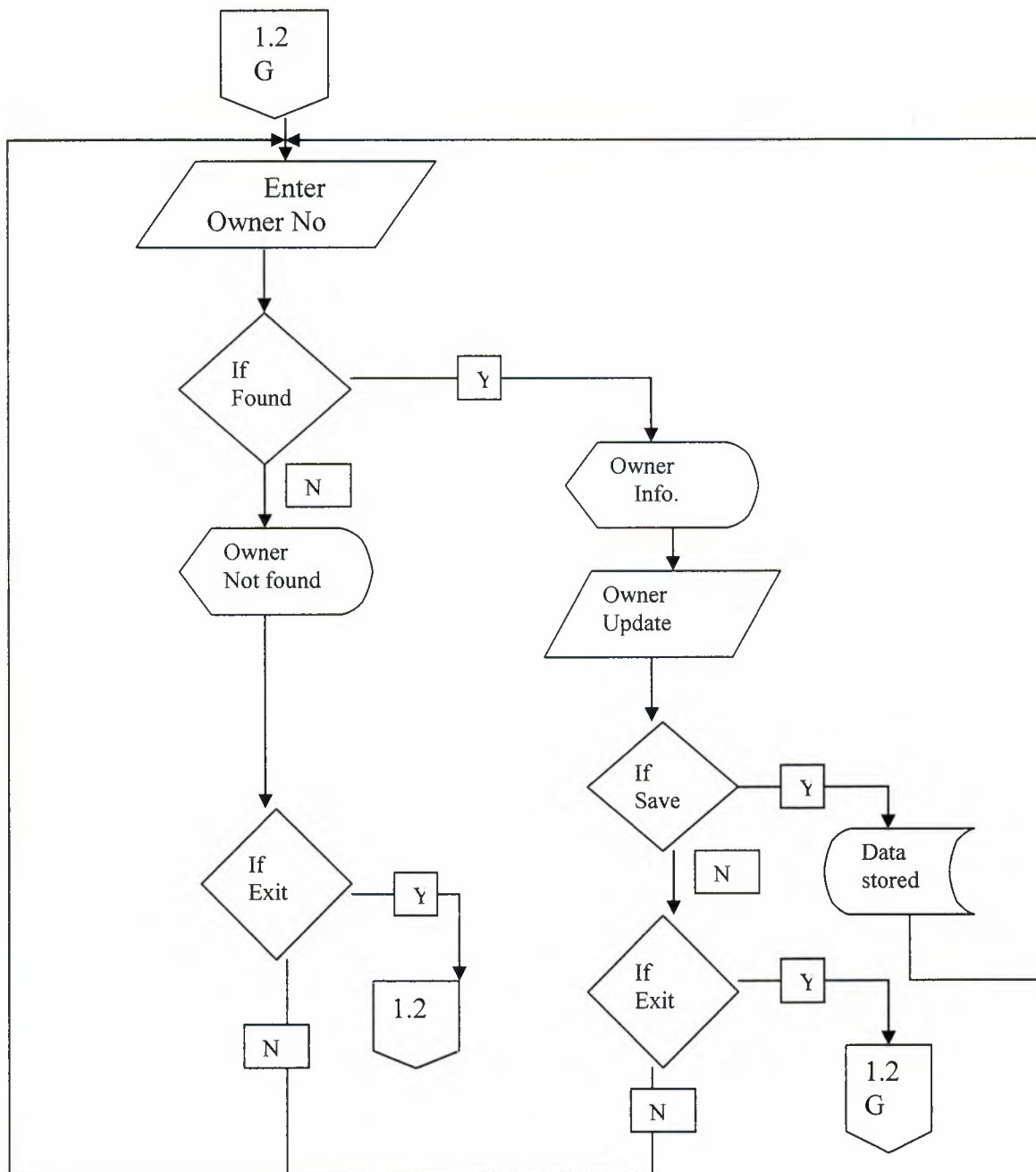


## OWNER DELETE





## OWNER SAVE



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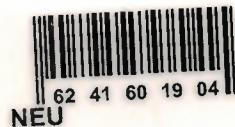
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- **House Process**
- **Transaction Process**
- **Owner Process**

**Customer process** In this process, we can entered data like customer id,customer name,customer surname,customer address, and customer phone number.For each customer we give unigue customer (c\_id).

**House process** Include a from for entering data like house\_id,street, area, postcode,type room,rent&sale, price and house picture. Each house has own House\_id(H\_id).It is unigue.

***And House Process include GroupBox.*** This Groupbox show us District of the Lefkosa and Area of the City

**Transaction process** In this process, we can entered data like Transaction\_id, customer\_id, House,\_id, debt, payamount, payment date and cash&due.In this process we can see customer information and house&flat information that store in cash payment or due to payment. For each transaction we give unigue Transaction\_id.

**Owner process** In this process, we can entered data like Householder informatin which house that *who has own house.*

**Report process** has four sub-process, these are:

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- **House List**
- **Payment Report List**
- **Debt Report List**

In these process, Customer List we can see customer that how many customer are store in database and House List we can see house that how many house are store in database.Allso in Payment Report List can see that customer due to pay or cash payment are listed. Dept Report List can only see dept list.



## **EXPLANATION**

# **ESTATE AGENT SOFTWARE**

### **THE STRUCTURE OF THE PROGRAM**


This software rents houses\_office to their customer it helps the user of the program to calculator the custs of the housess and simplefies the selecting the houses which are for sale and for rent also helps the accounting needs of the user it reports the transactions of houses you can analyse the customers needs buy this program because of the database applications it stores all the customer information into the database debts and customers

*This program is the solution to the estata agent.*

### **TECHNICAL INFORMATION**

This program uses the **ACCESS** for its database applications and coded in **Delphi** and **SQL**

# customer : Table

Field Name	Data Type	Description
 c_name	Number	
c_surname	Text	
c_address	Text	
c_tel	Text	
	Number	

## Field Properties

### General

Field Size Integer

Format

Decimal Places Auto

Input Mask

Caption

Default Value 0

Validation Rule

Validation Text

Required No

Indexed Yes (No Duplicates)

A field name can be up to 64 characters long, including spaces. Press F1 for help on field names.



customer : Table

c_id	c_name	c_surname	c_address	c_tel
1	ndsfk	fkwmj	wkef	23453
T_id	H_id	dept	payamount	pay_date
9	3	100	50	11.02.2004 DUE
10	4	200	0	10.05.2005 CASH
(AutoNumber)	0	0	0	
2	fewsf	ewsf	wesf	35
T_id	H_id	dept	payamount	pay_date
8	2	35	35	12.12.2000 DUE
(AutoNumber)	0	0	0	
0				0

Record: 2 of 2



# house : Table

Description

Field Name	Data Type	
H_id	Number	
street	Text	
area	Text	
city	Text	
pcode	Text	
type	Text	
room	Number	
Rent&sale	Text	

Field Properties

## General

## Lookup

15

Field Size

Format

Input Mask

Caption

Default Value

Validation Rule

Validation Text

Required

Allow Zero Length

Indexed

Unicode Compression

IME Mode

IME Sentence Mode

No

Yes

No

Yes

No Control

None

The data type determines the kind of values that users in the field. Press F1 for help on data types.



## house : Table

	H_id	street	area	city	pcode	type	room	Rent&sale	pri
+	1	fsw	sdf	kgk	kg	villa	8	rent	
-	2	tftg	tgfg	gfdg	gdfgd	gfd	545	sale	
	T_id	c_id	dept	payamount	pay_date	cash&due			
	8	2	35	35	12.12.2000	DUE			
*	(AutoNumber)	0	0	0					
+	3	wqef	jfng	jng	jkdg	flat	0	rent	
▶	0						0		



# Transaction : Table

	Field Name	Data Type	Description
?	T_id	AutoNumber	
	c_id	Number	
	H_id	Number	
	dept	Number	
	payamount	Number	
▶	pay_date	Date/Time	
	cash&due	Text	

## Field Properties

### General

Format

Input Mask

Caption

Default Value

Validation Rule

Validation Text

Required

Indexed

IME Mode

IME Sentence Mode

99.99.00;0;\_

No

No

No Control

None

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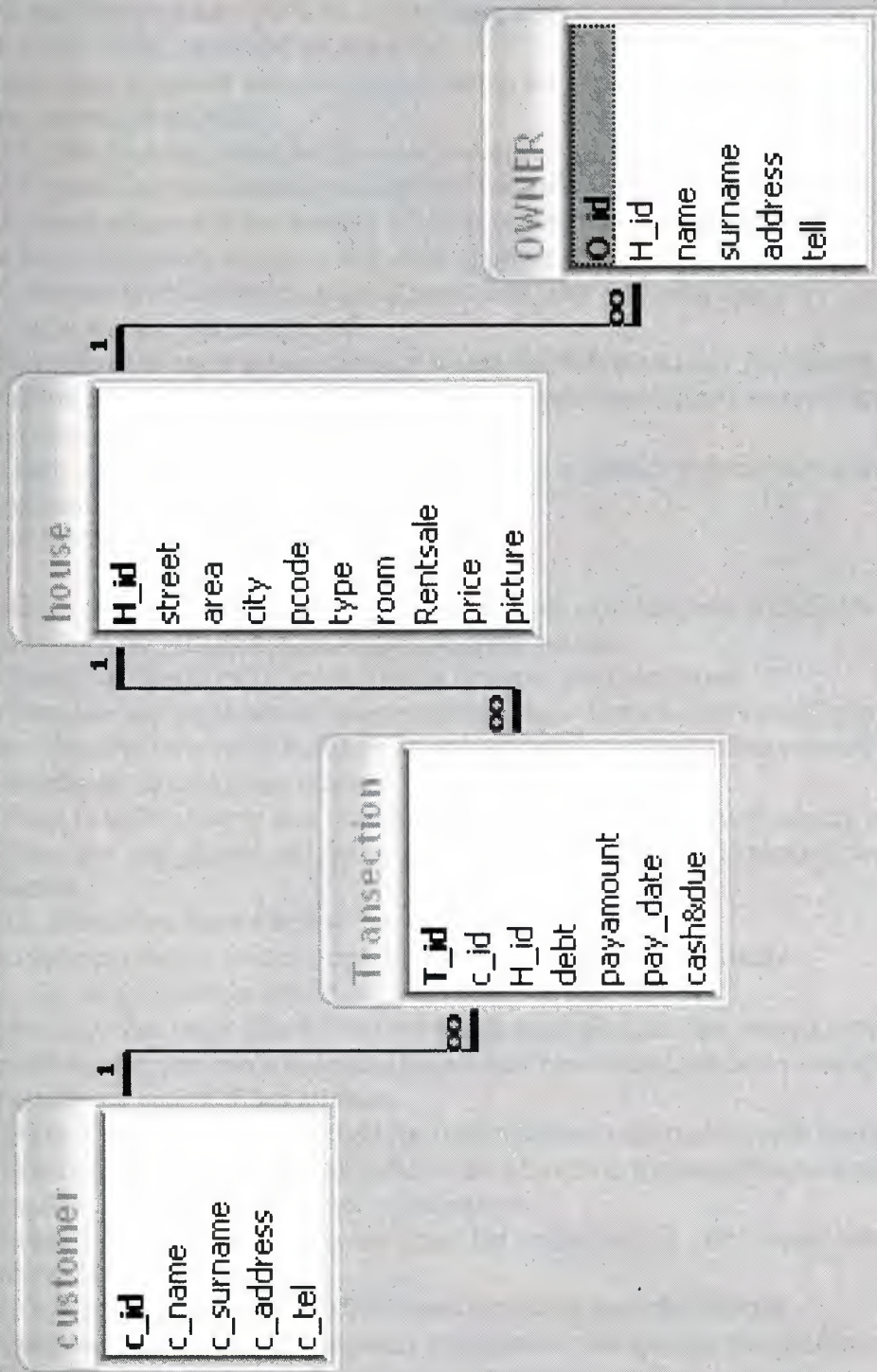
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	T_id	c_id	H_id	dept	payamount	pay_date	cash&due
	8	2	2	35	35	12.12.2000	DUE
	9	1	3	100	50	11.02.2004	DUE
Ø	11	3	4	0	300	06.06.2005	CASH
*	(AutoNumber)	0	0	0	0		

Record: 3 of 3



# Relationships





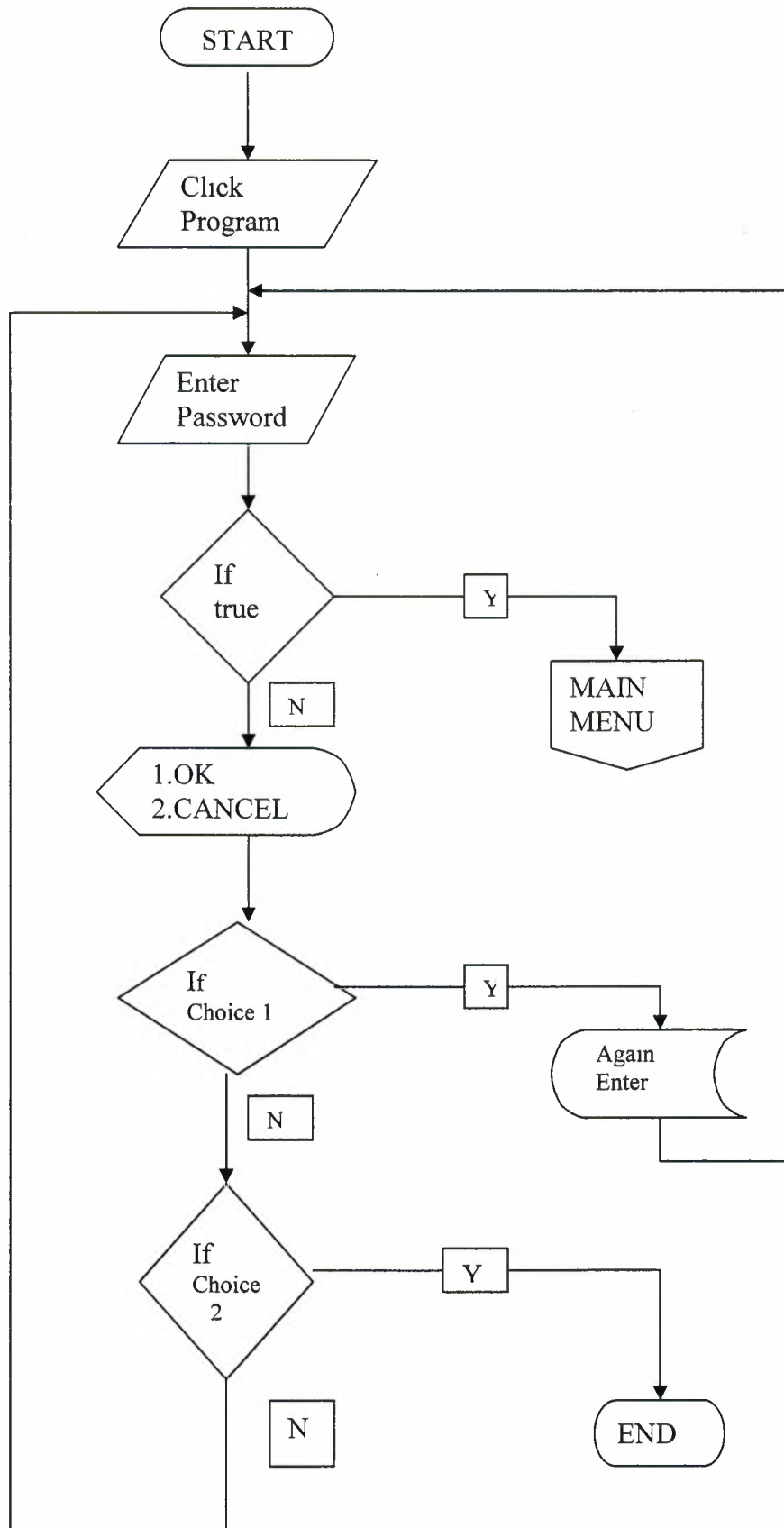
# ***USER MANUAL***

1. Estate Agent Software program are started with 'Enter Program' button .
2. 'Please Enter Password' text are appears and user has to enter password.  
OK is run the program CANCEL is terminate and exit program also if user can enter three times wrong password program exit.
3. Main Menu is appear with two button which are about program and exit. four manus are tables ,reports,about,exit.
  1. Tables includes customer process,house process,transaction process.
  2. Reports includes house list ,customer list ,debt report list and payment report list.
  3. About program is has strcture of program and tecnical information.
  4. Exit is terminate program and close application.
4. Customer process (tables ,reports,about,exit) has text with fields  
c\_id,c\_name,c\_surname,c\_tel.  
Navigator has eight action fanchion which show first and last record,step by step records,save new records,delete records,add new records,update records and new records are cancel if has mistake.  
There are two search botton that used for find customer information with useing custimer id and customer name.  
All records are shown below the window.
5. House process (tables ,reports,about,culculator,exit) has text with fields h\_id,street area, city, pcode,type,room,rent&sale,price, picture.  
Calculator menus call ms calculation to make any calculation.  
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There is search botton that used for find house information with useing house id  
There are add picture and delete picture bottom action is add picture or delete house picture.  
All records are shown below the window.
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House list is listed all house information that are recorded before.  
Customer list is listed all customer information that are recorded before.  
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Payment Report list is listed all customer cash& due payment.
8. Exit menus has process that back to the main menu just only mein menus exit is terminates and close program.

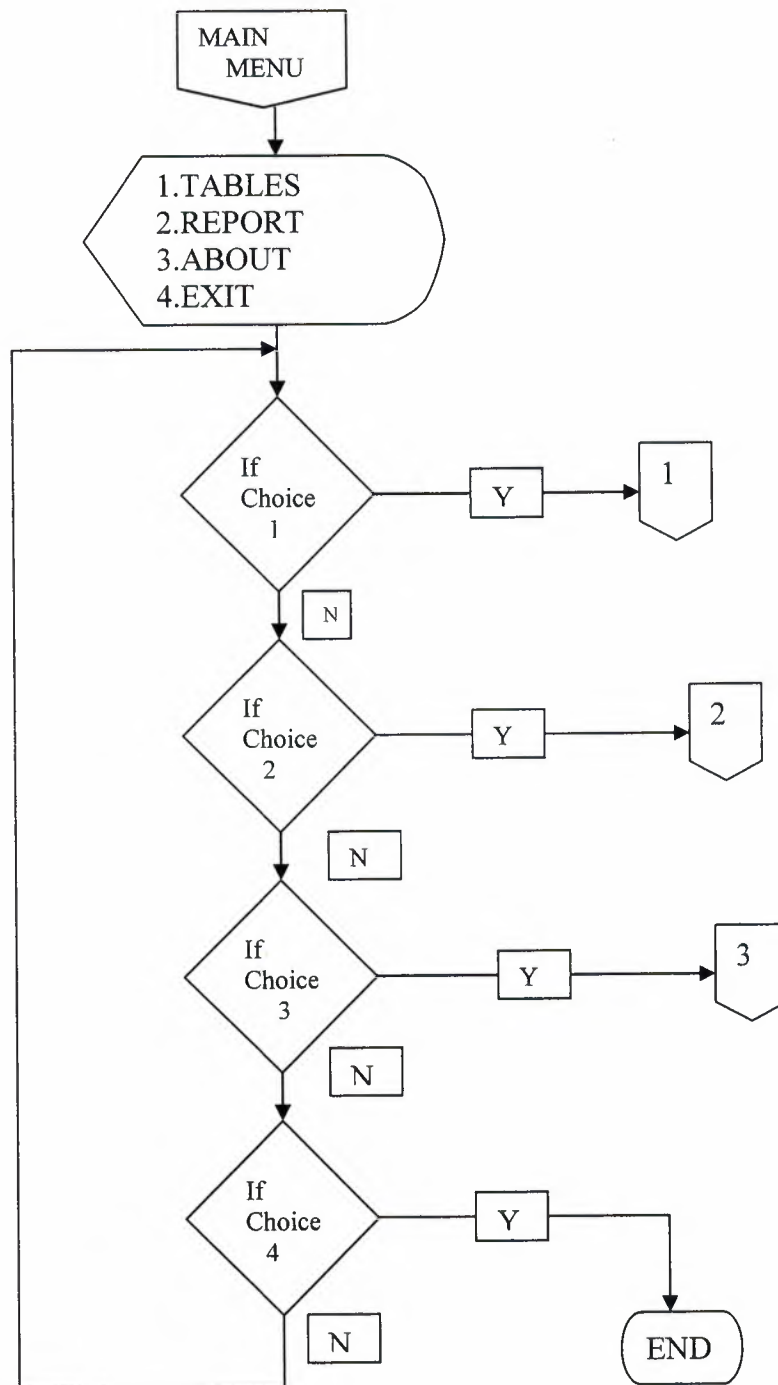


# FLOWCHART

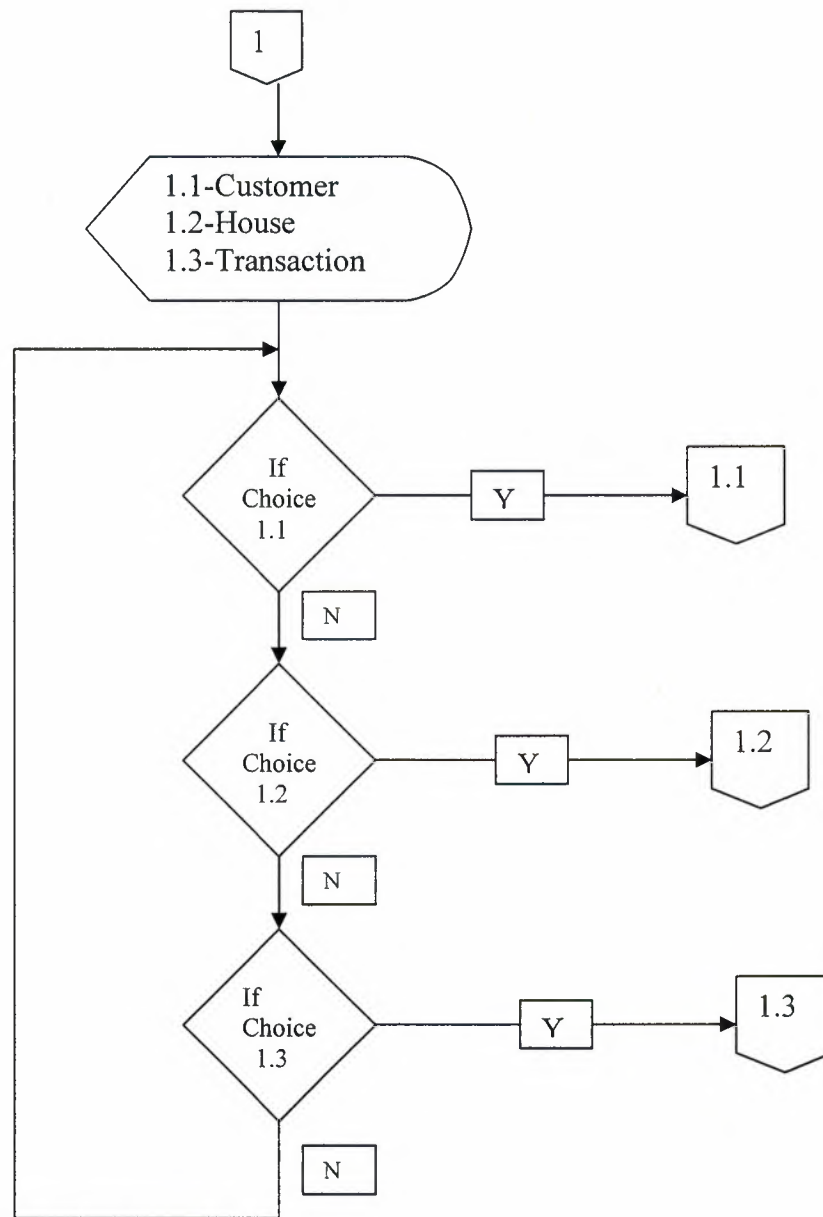
USER ENTER



# MAINMENU

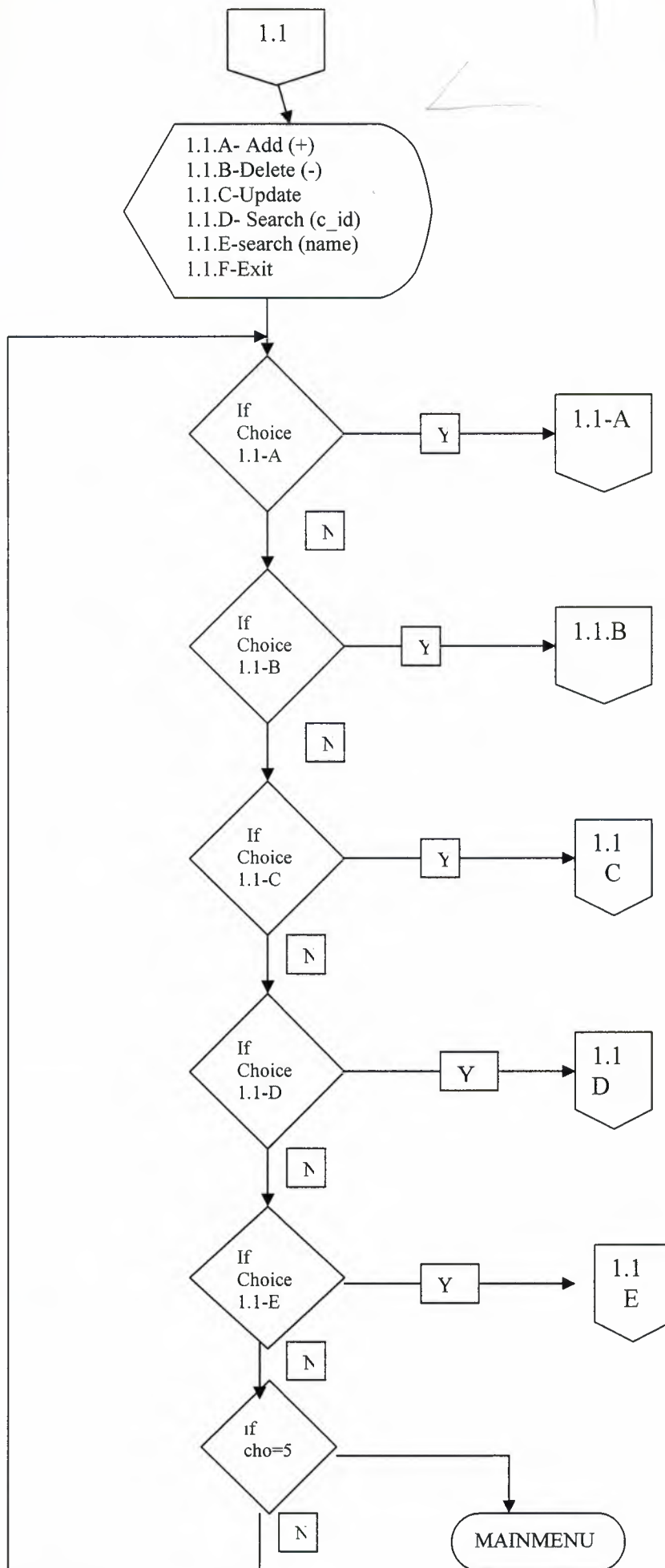


## TABLES

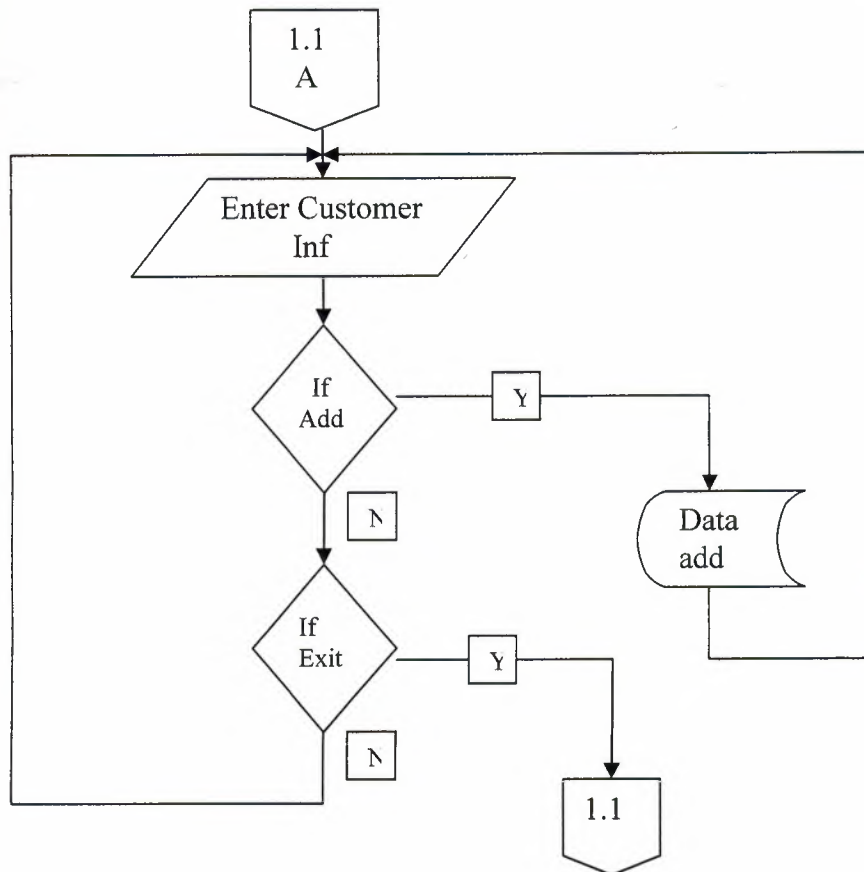




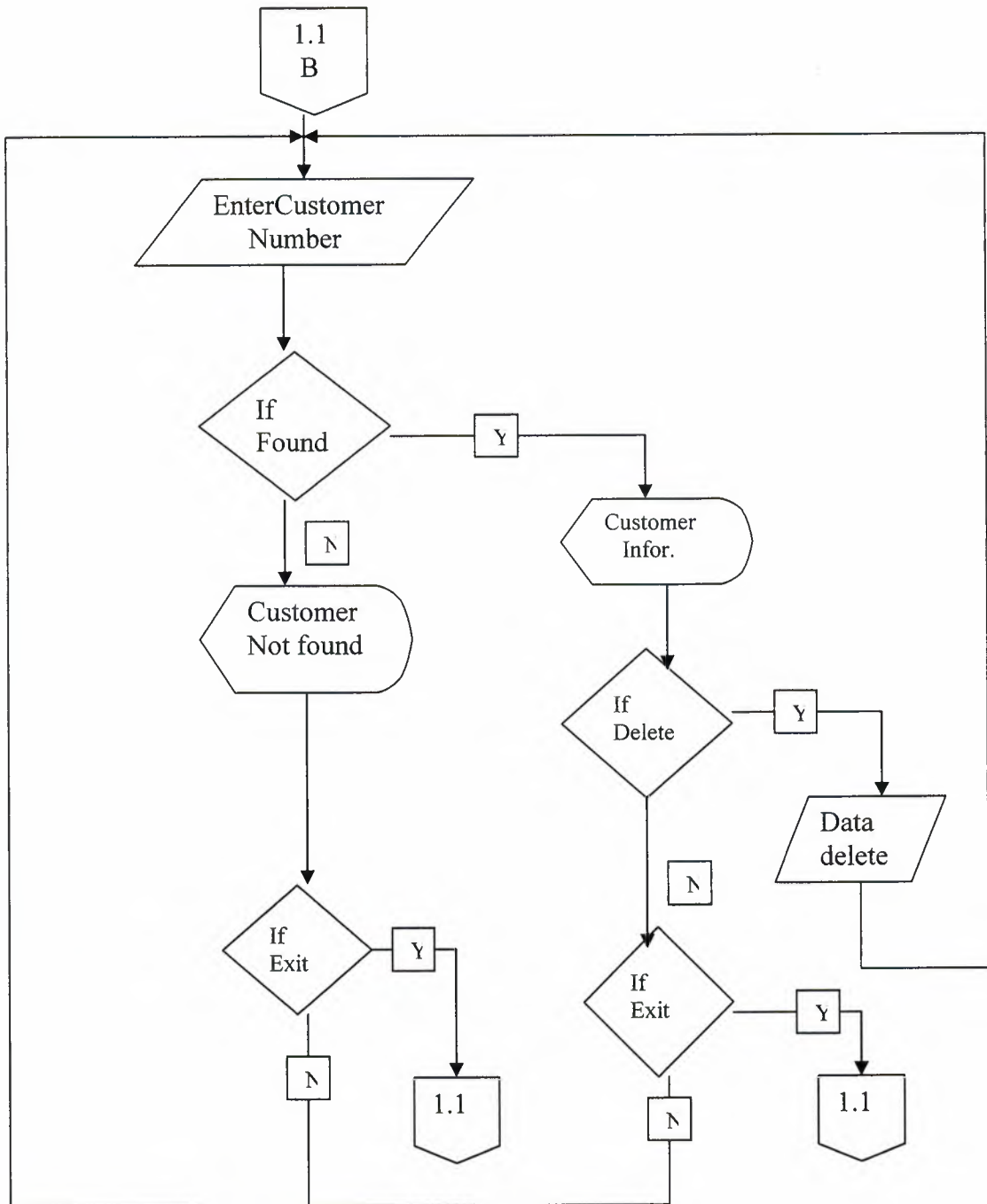
## CUSTOMER



## CUSTOMER ADD

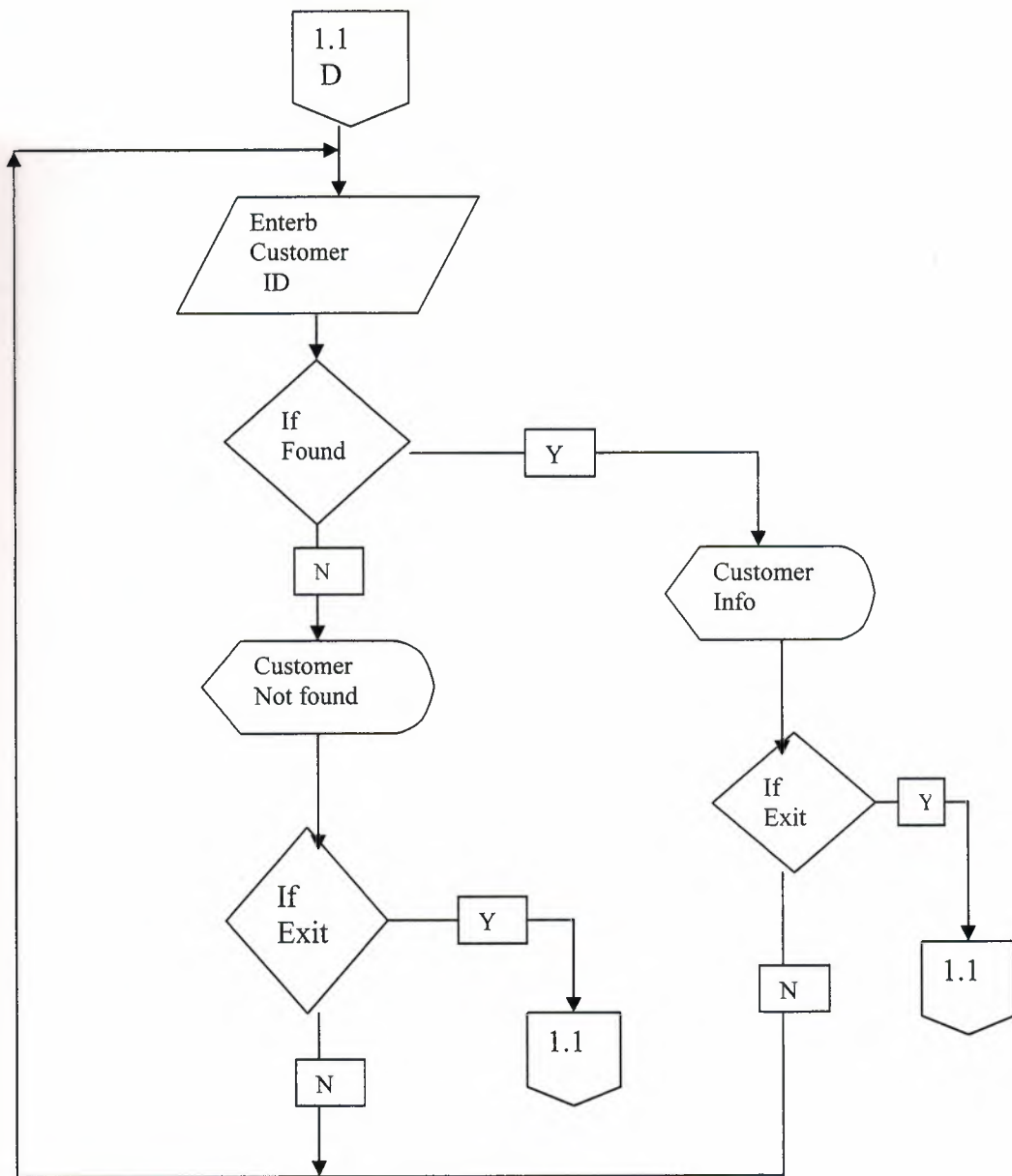


## CUSTOMER DELETE

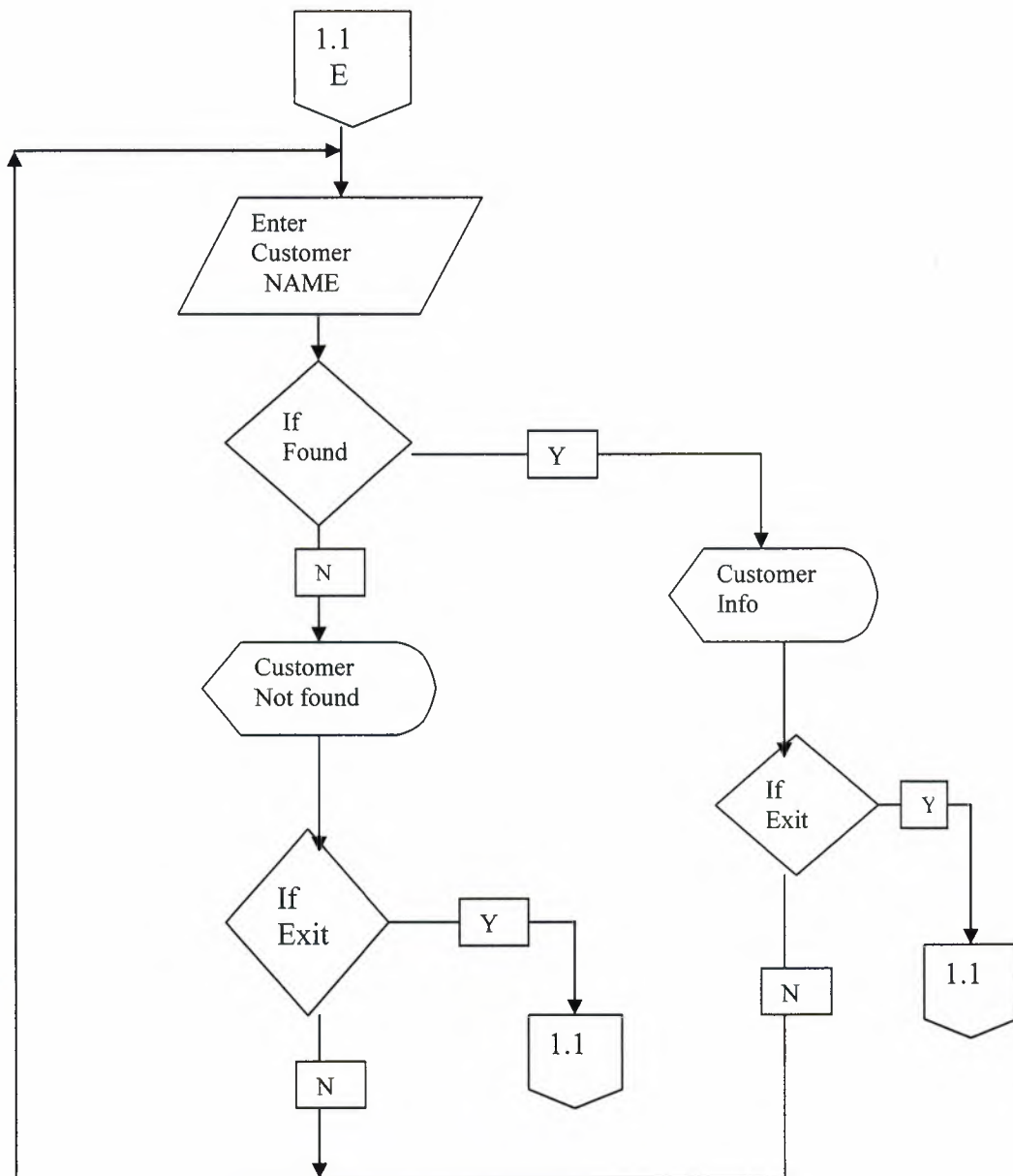




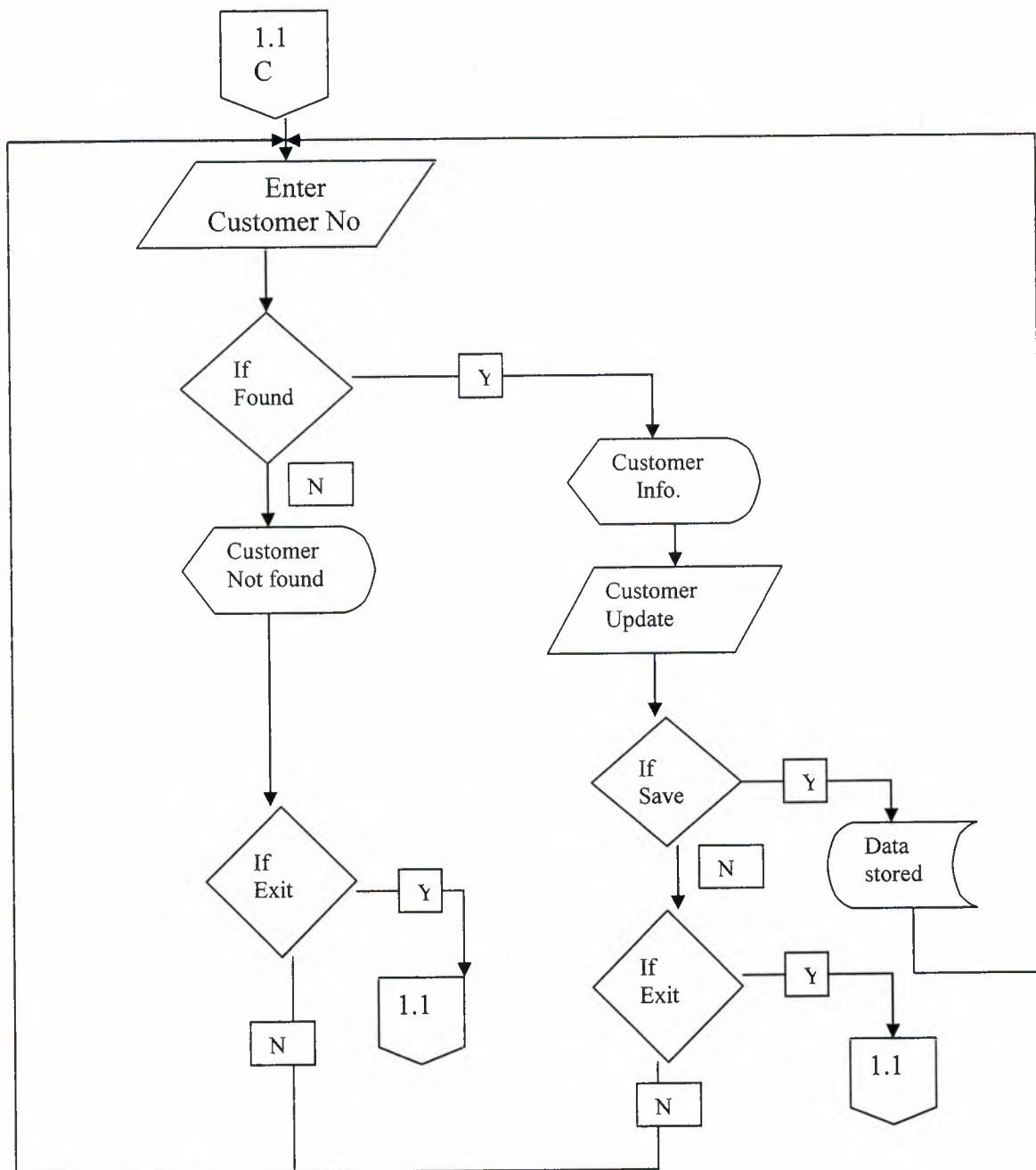
# CUSTOMER SEARCH (C ID)



## CUSTOMER SEARCH (NAME)

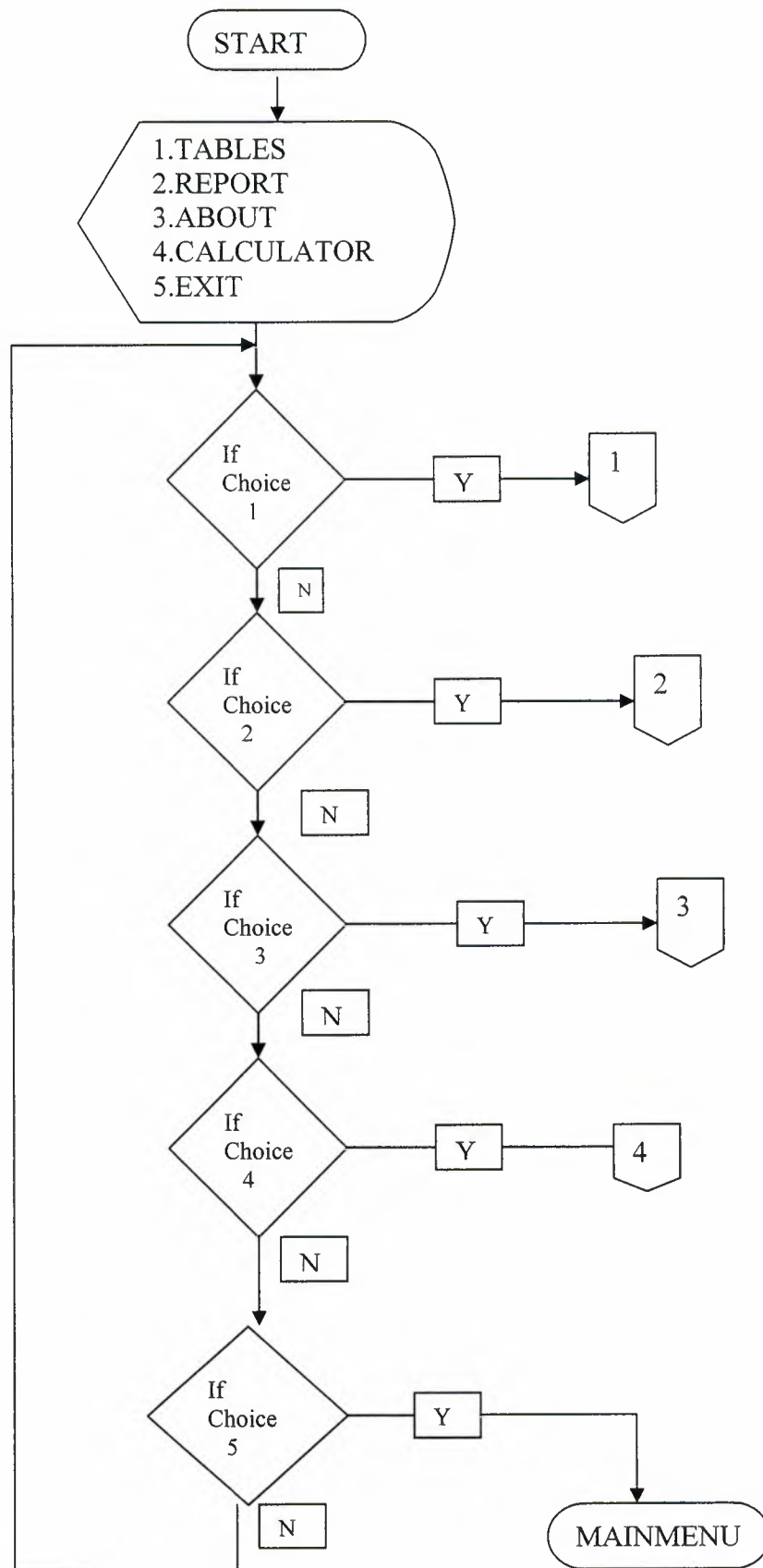


## CUSTOMER UPDATE

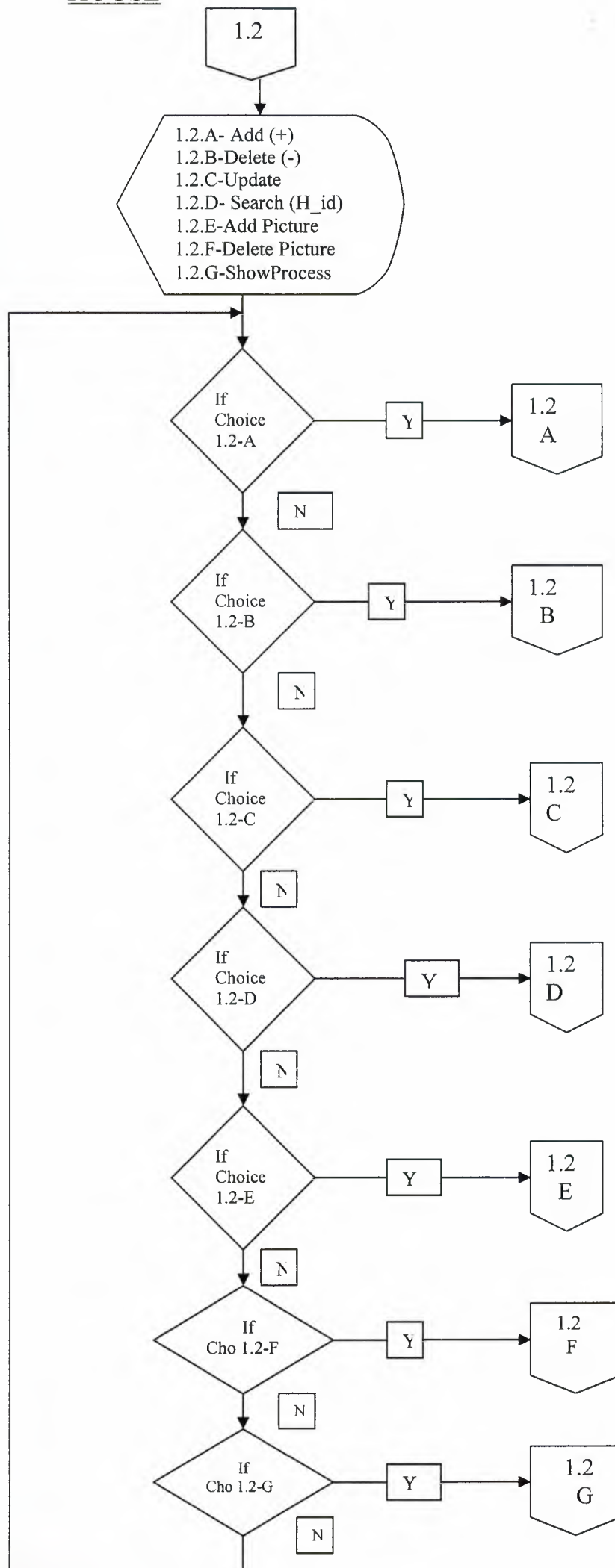




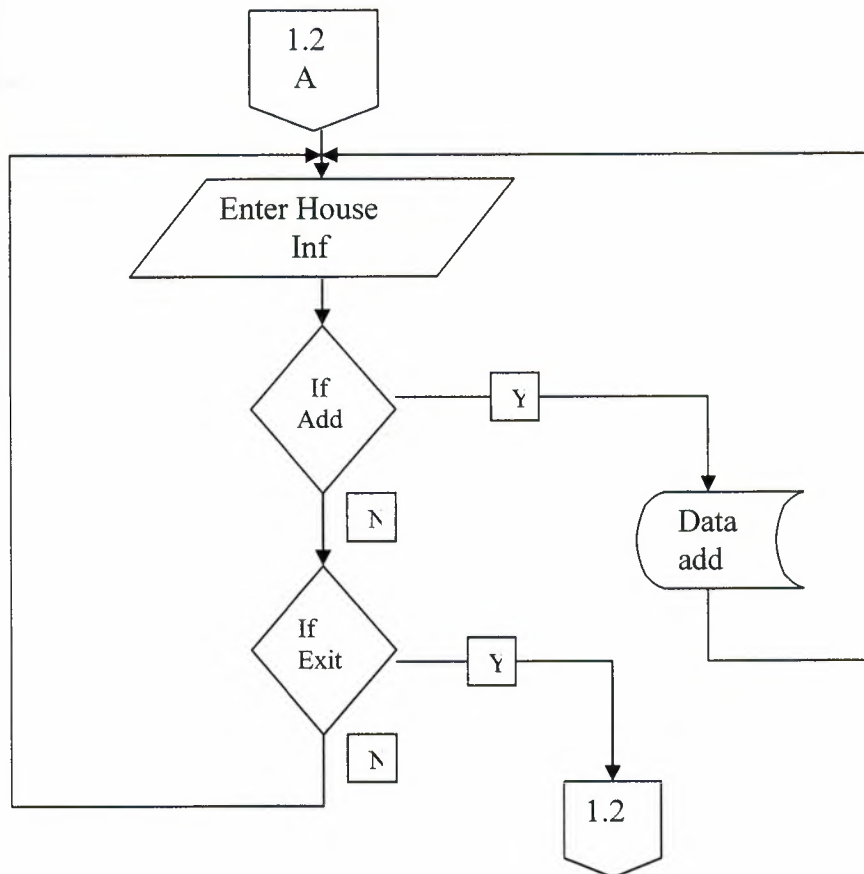
## HOUSE PROCESS



# HOUSE

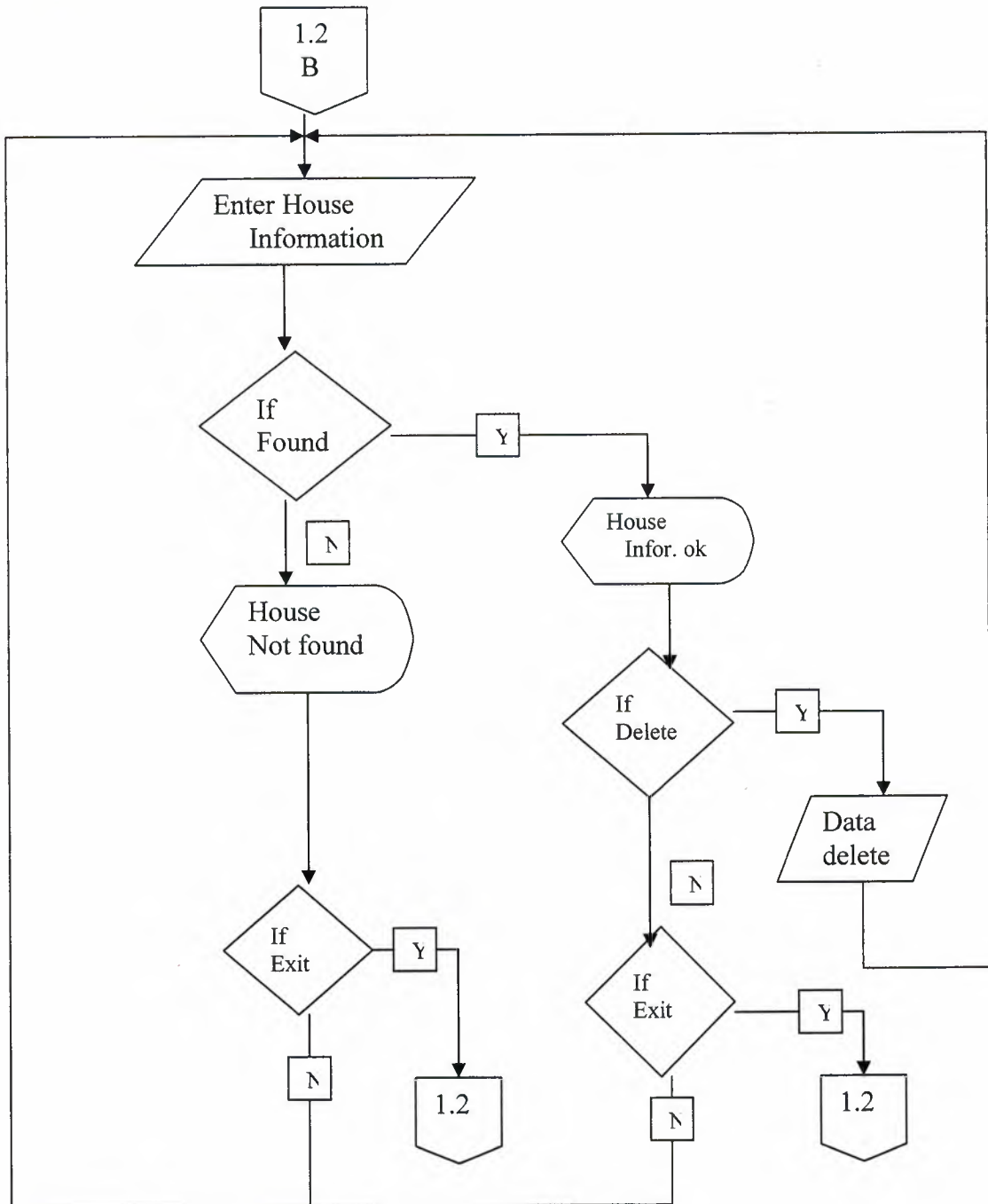


## HOUSE ADD

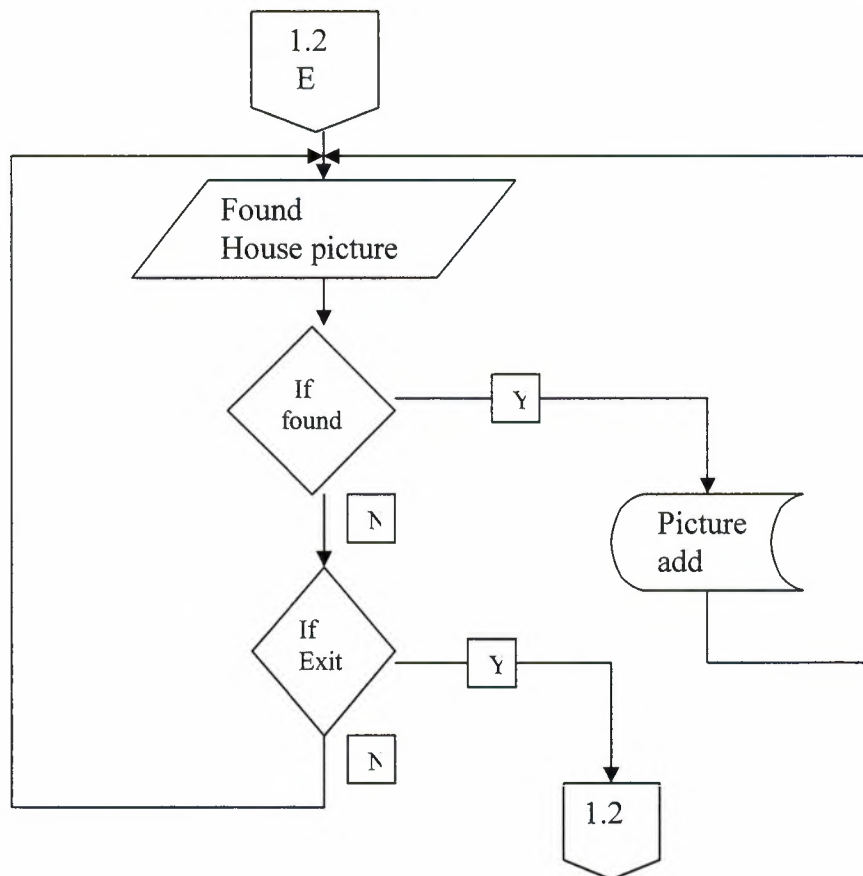




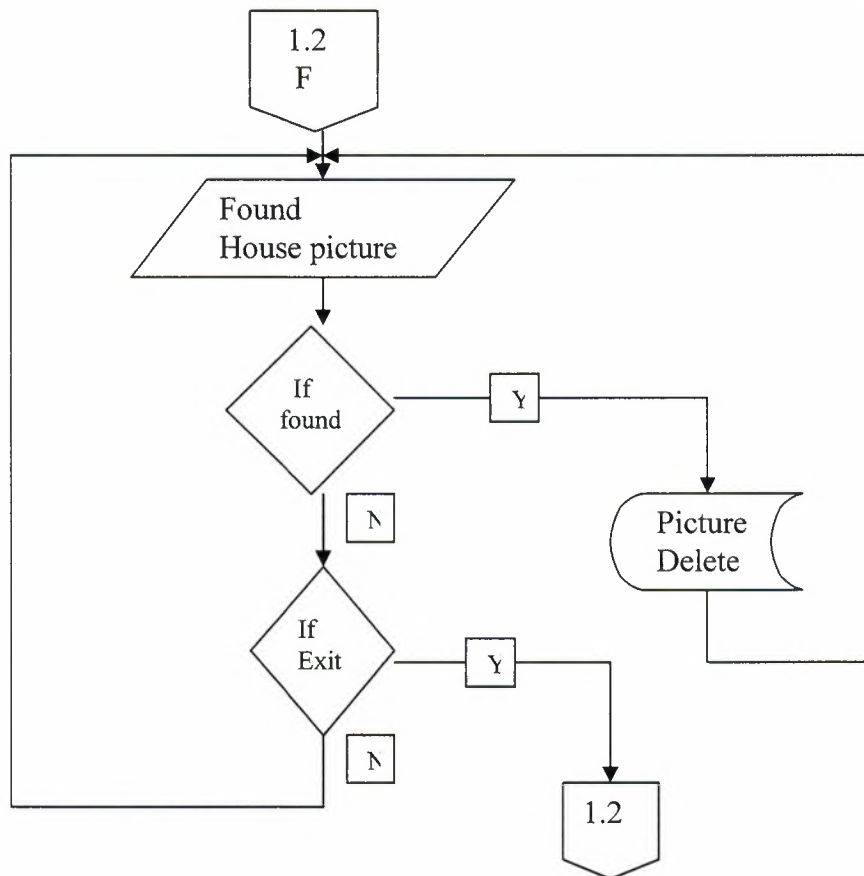
## HOUSE DELETE



## HOUSE ADD PICTURE

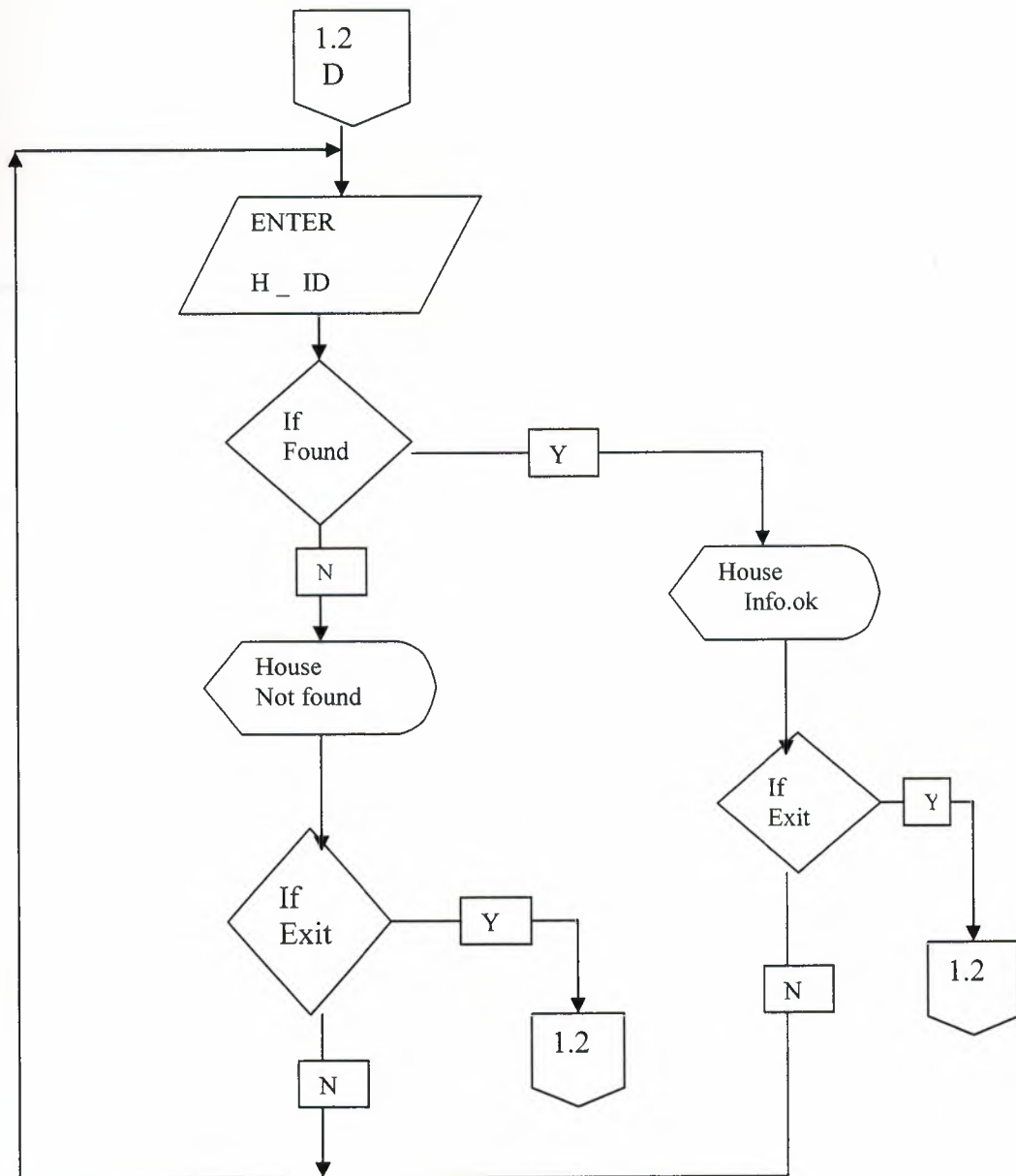


## HOUSE DELETE PICTURE

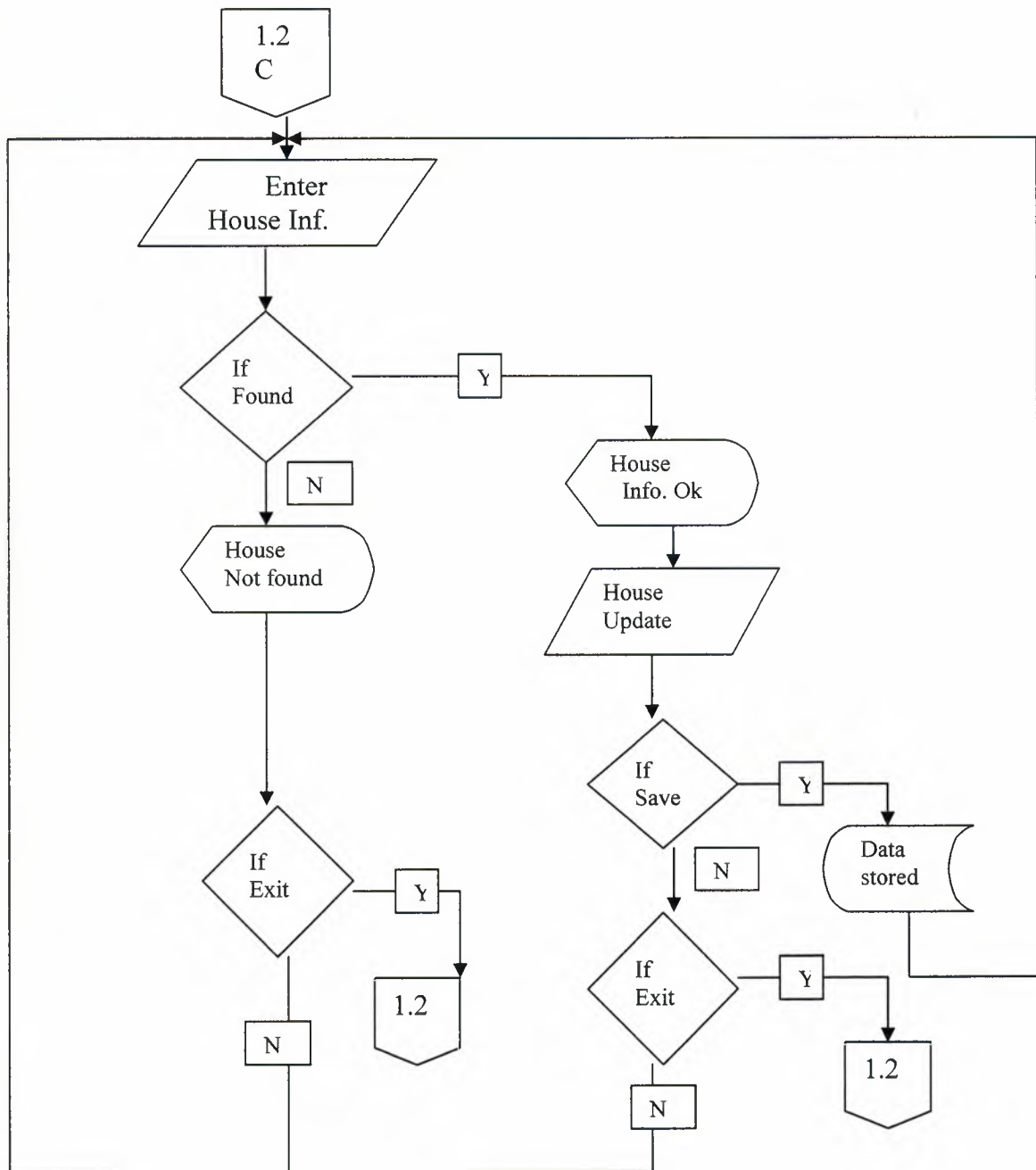




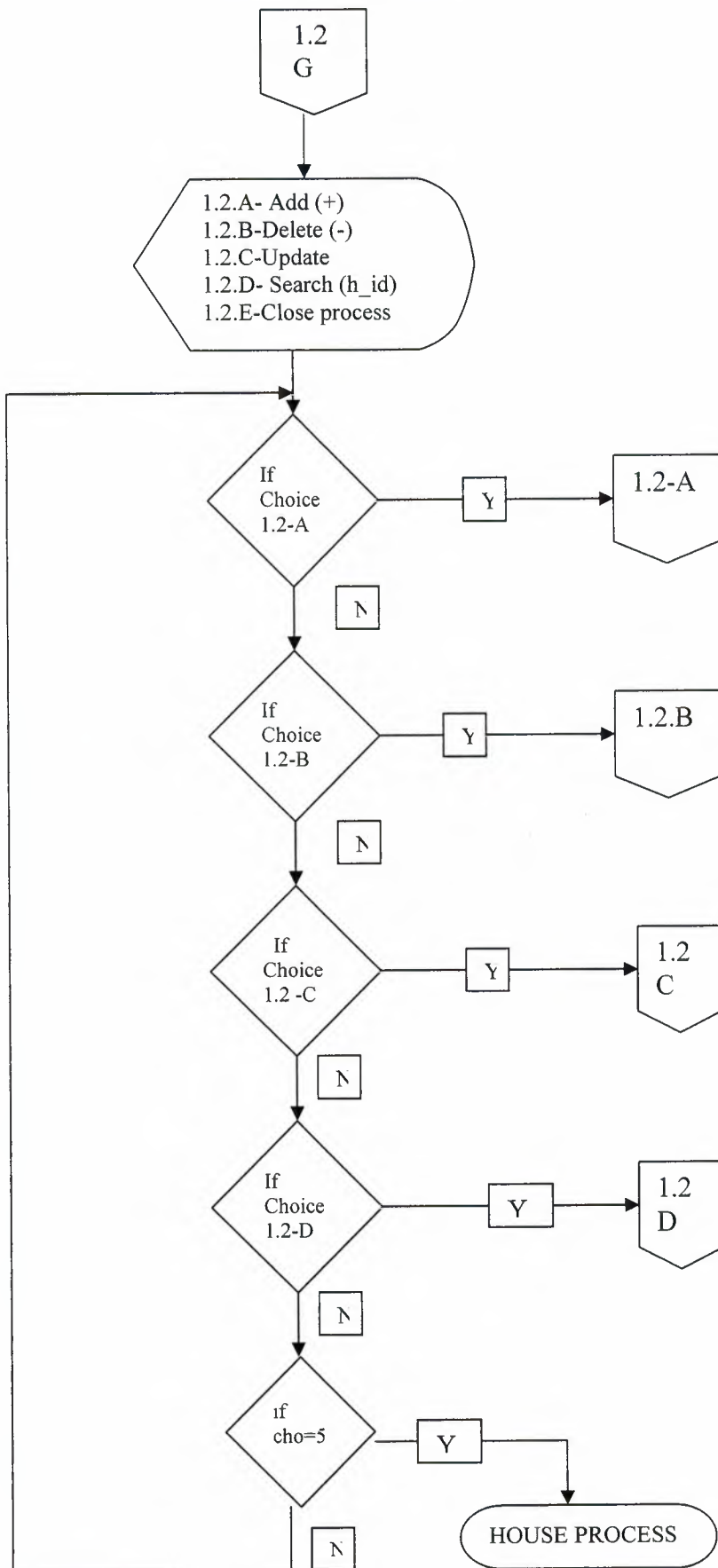
# HOUSE SEARCH (H\_ID)



## HOUSE UPDATE

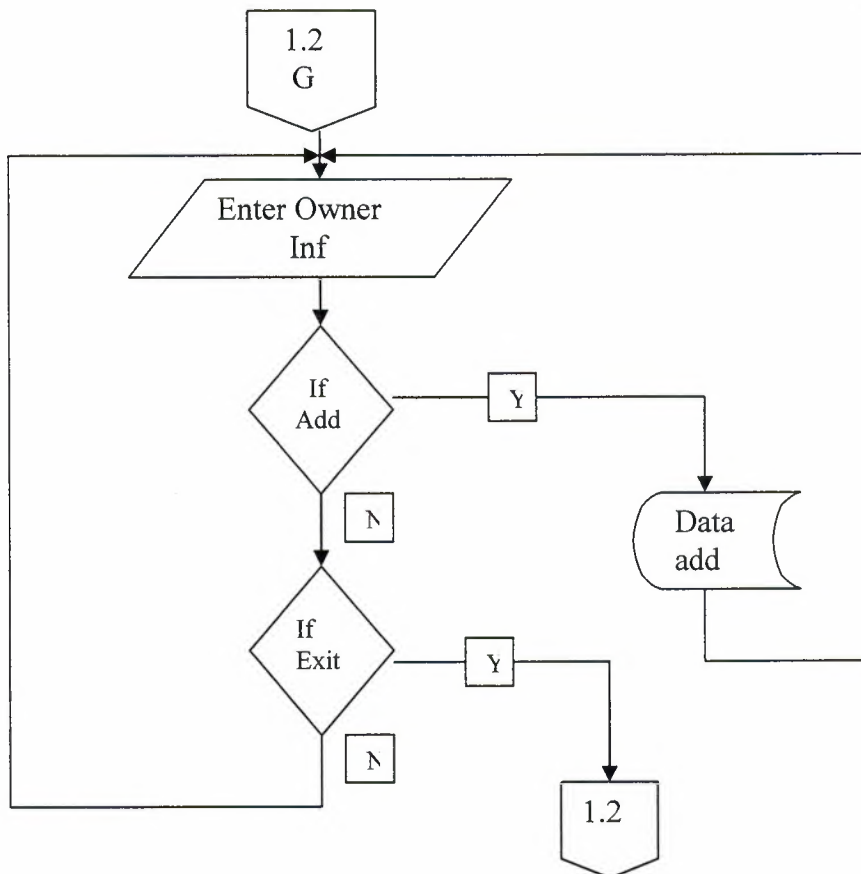


## OWNER PROCESS

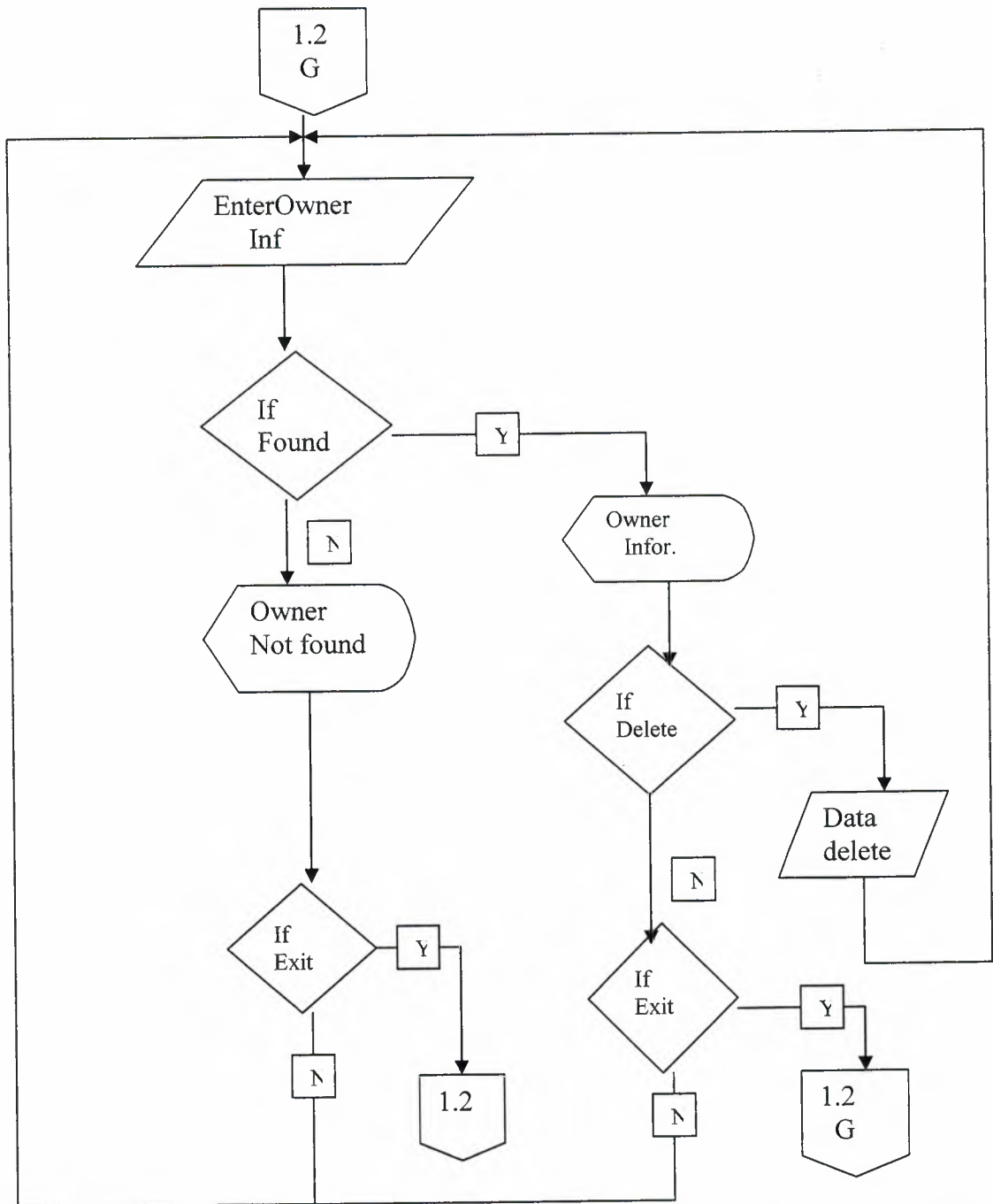




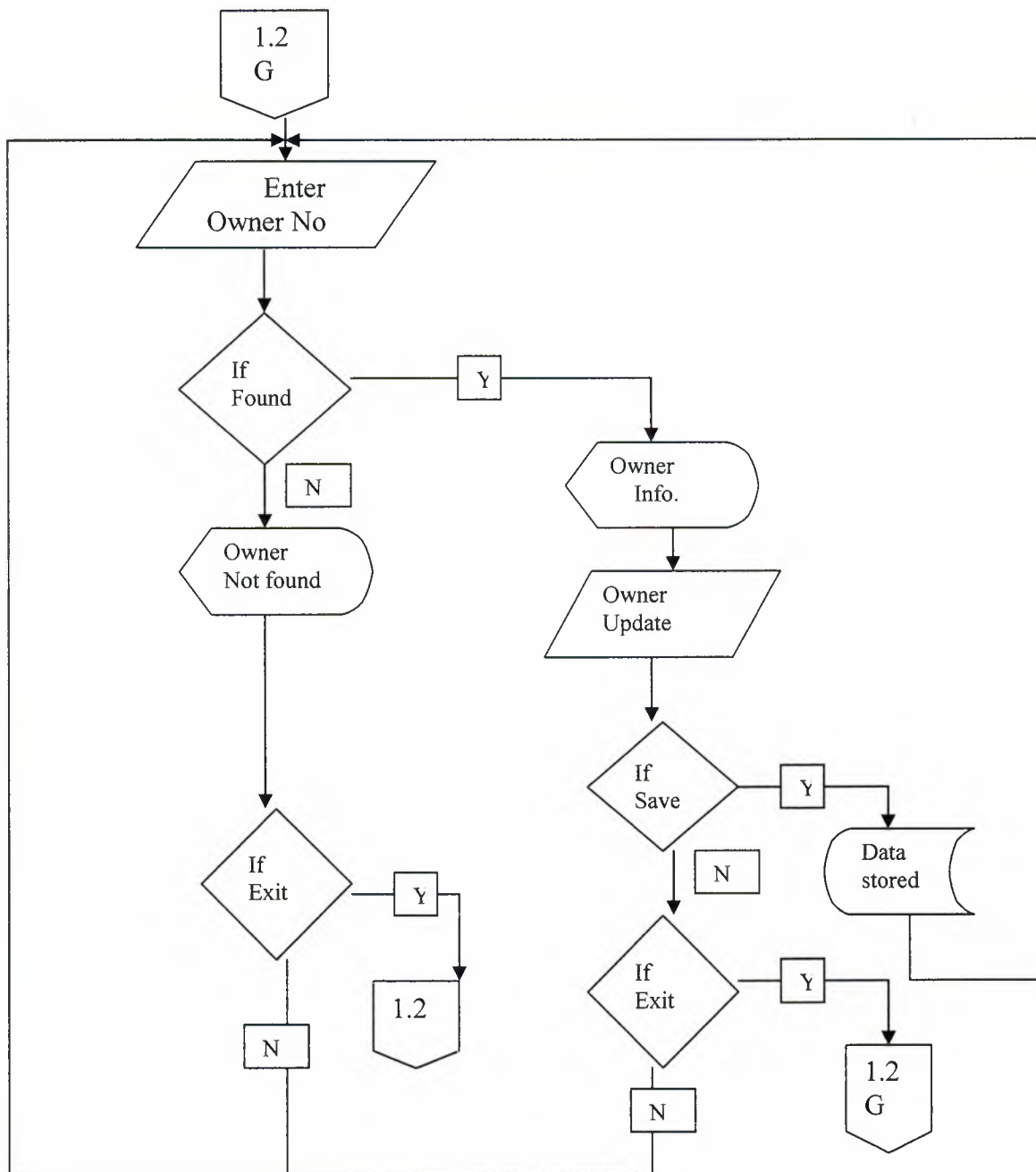
## OWNER ADD



## OWNER DELETE

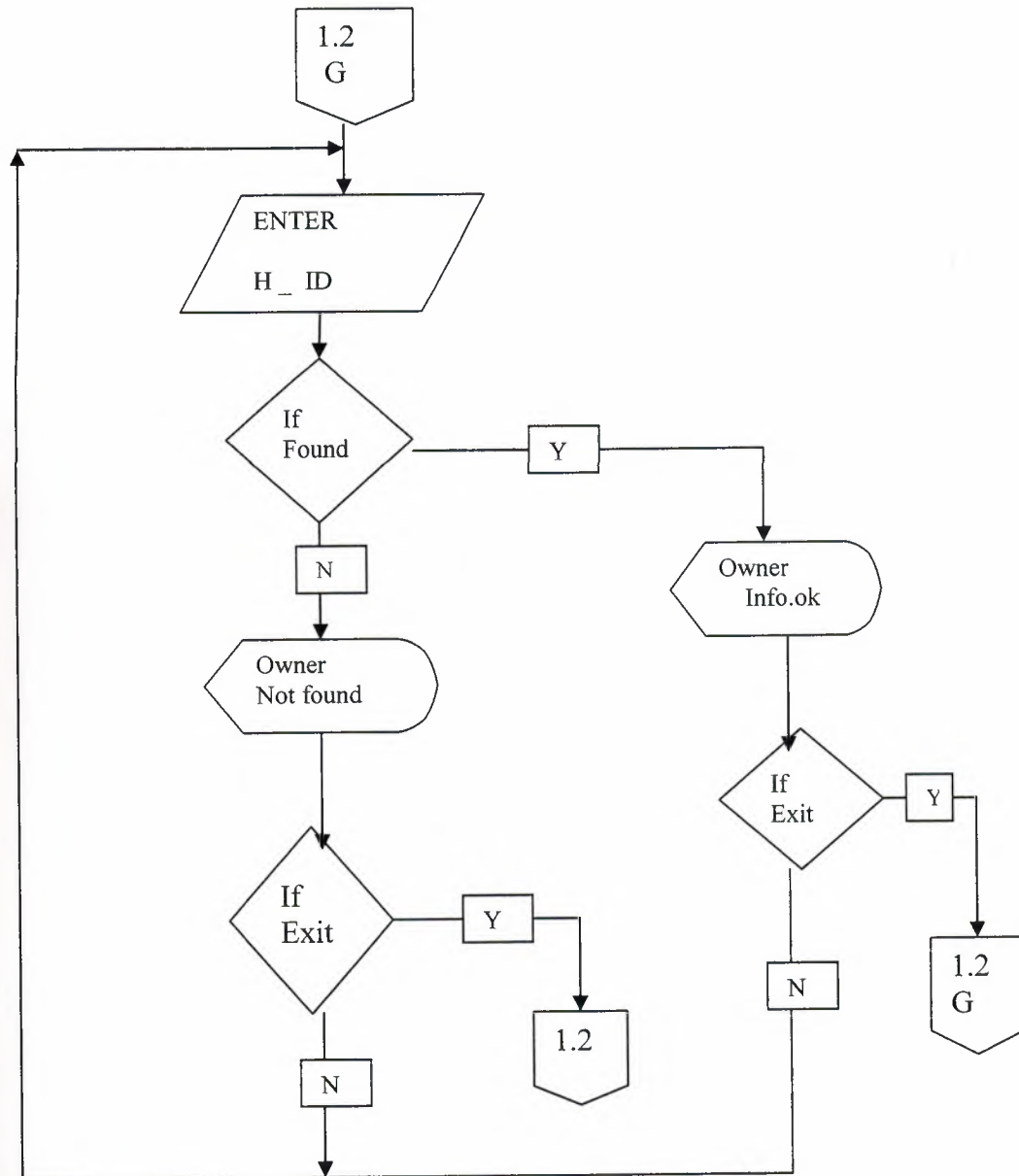


## OWNER SAVE

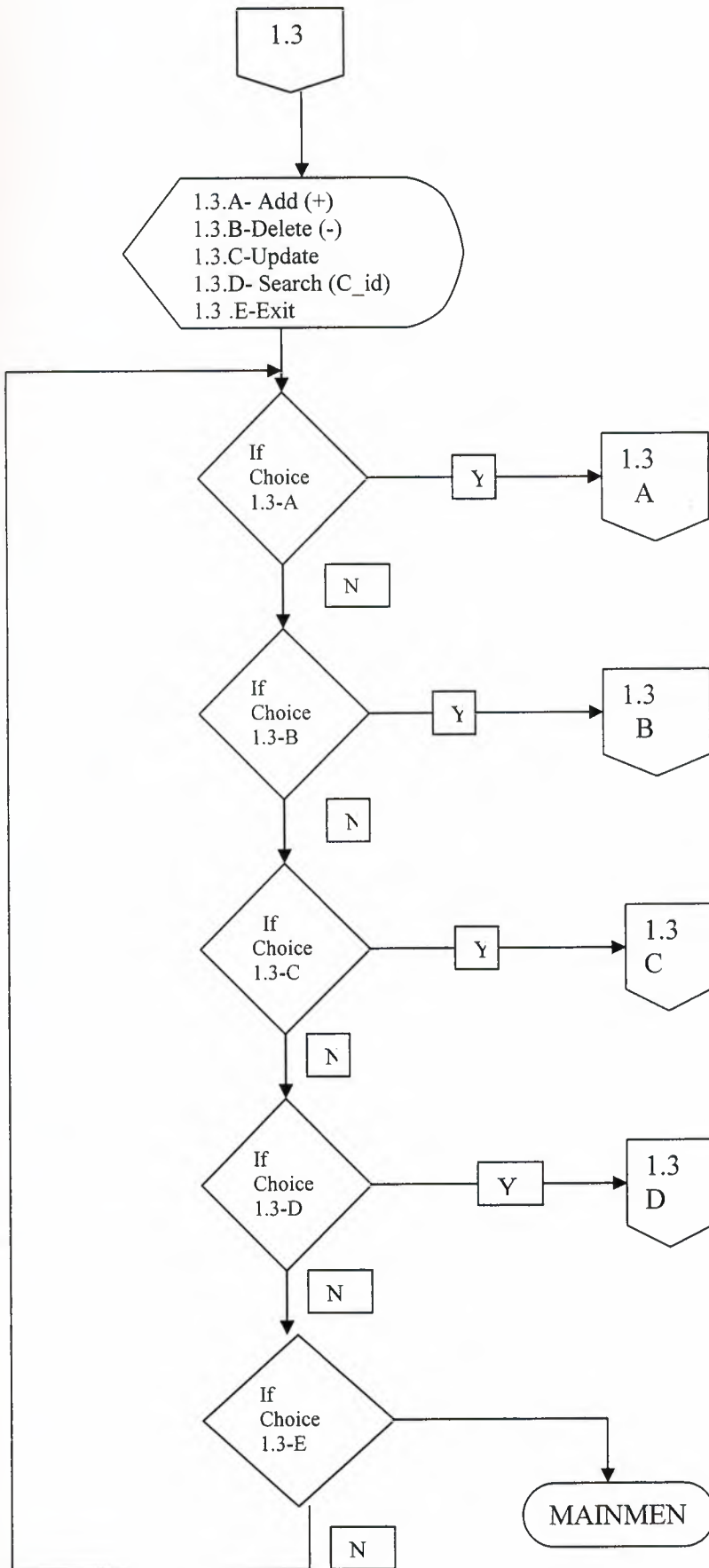




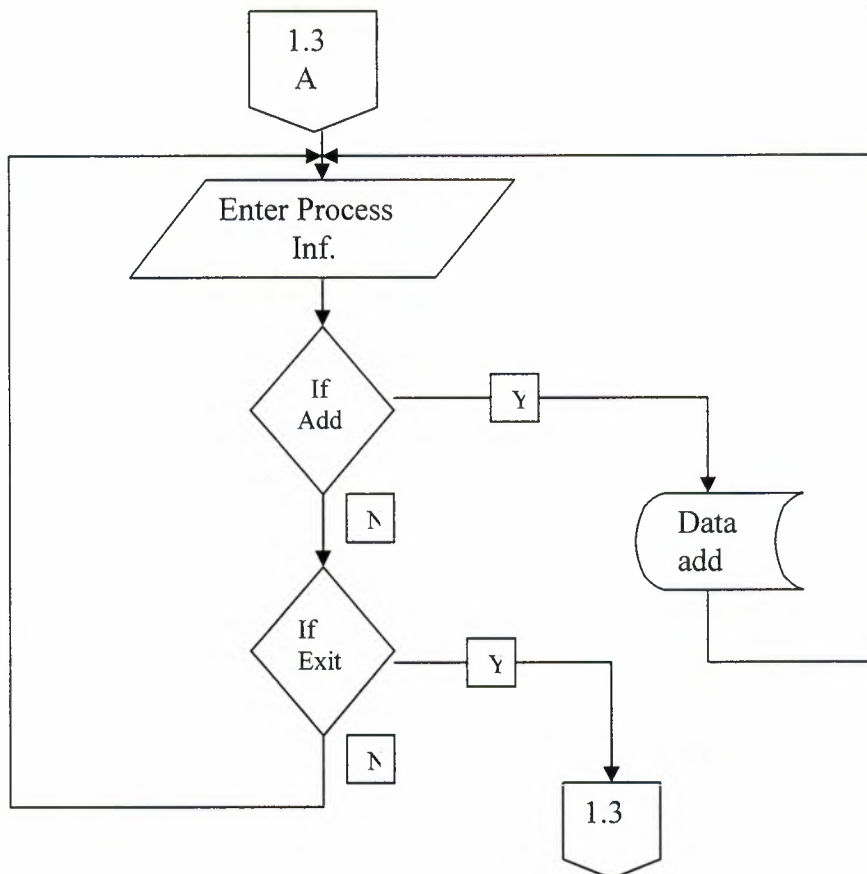
OWNER SEARCH (H\_ID)



## TRANSACTION

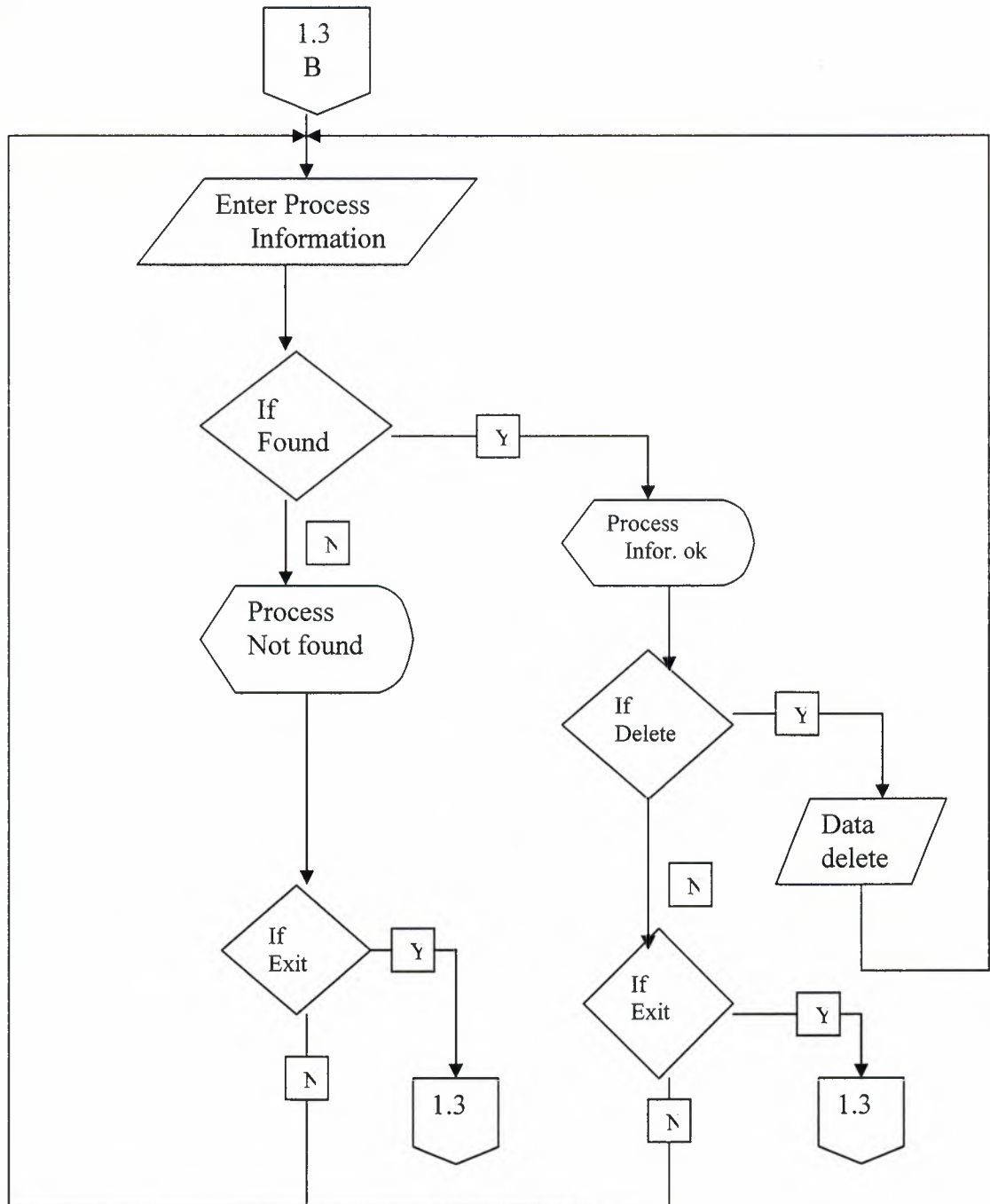


## TRANSACTION ADD

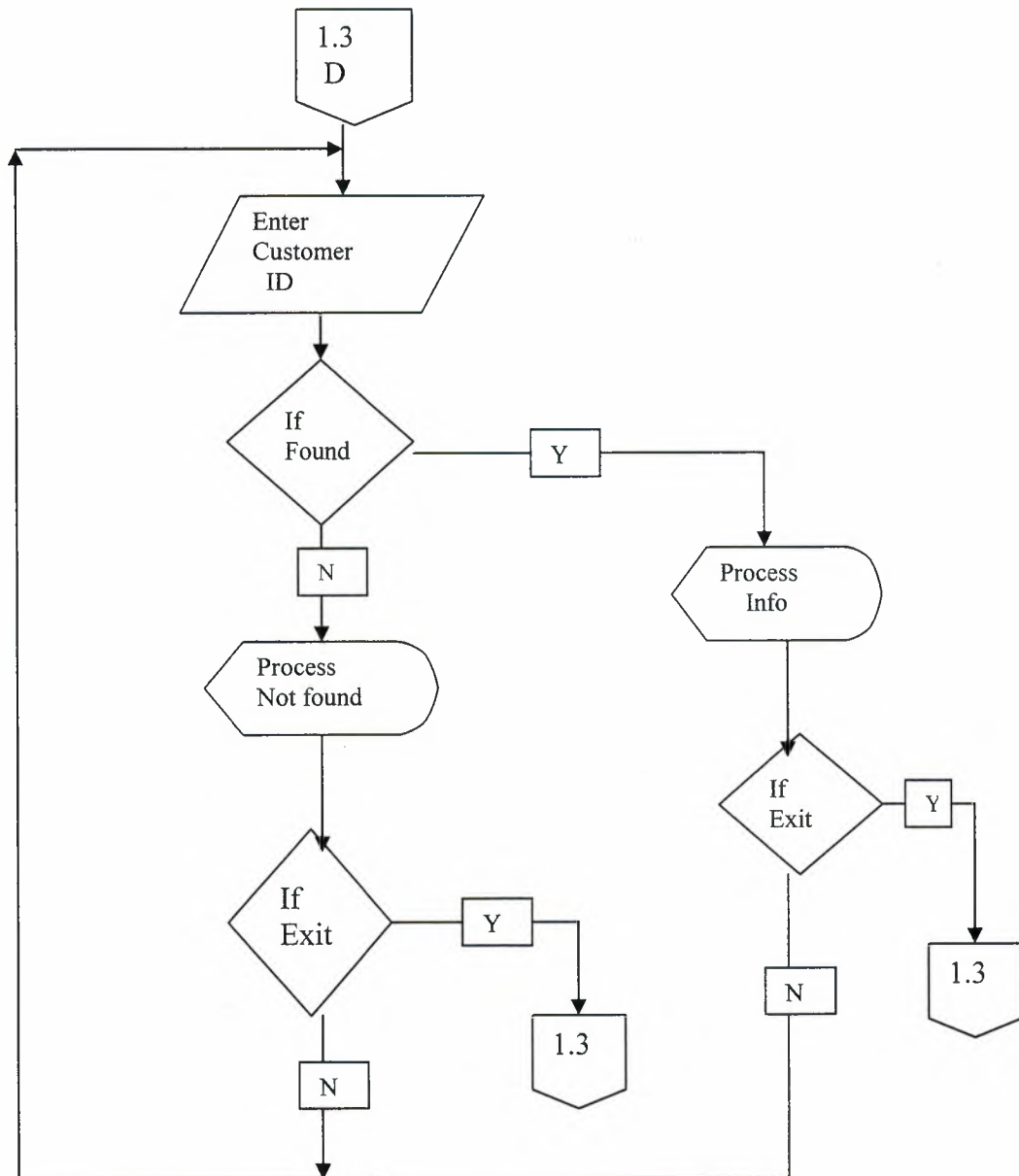




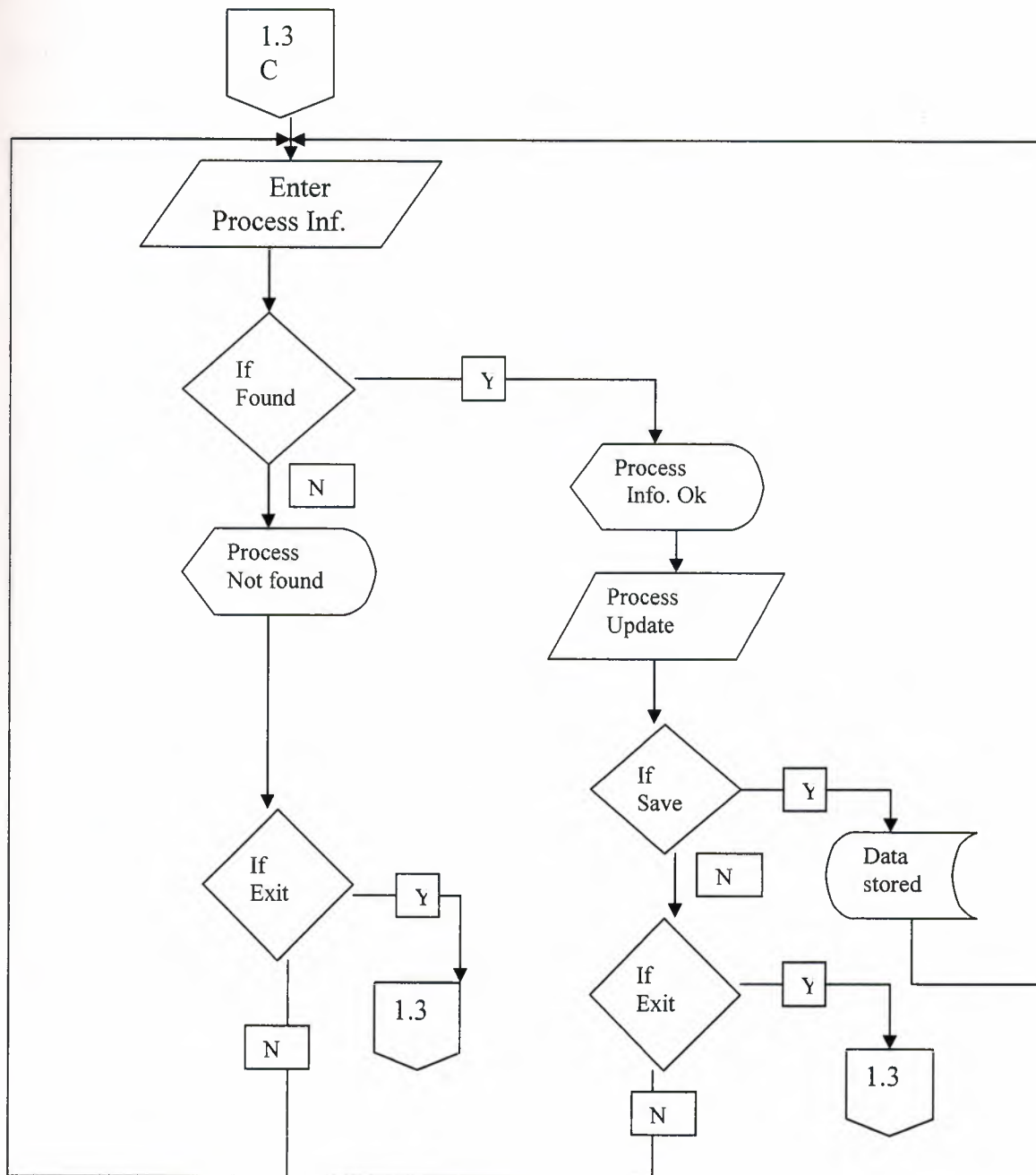
## TRANSACTION DELETE



# TRANSACTION SEARCH (C\_ID)

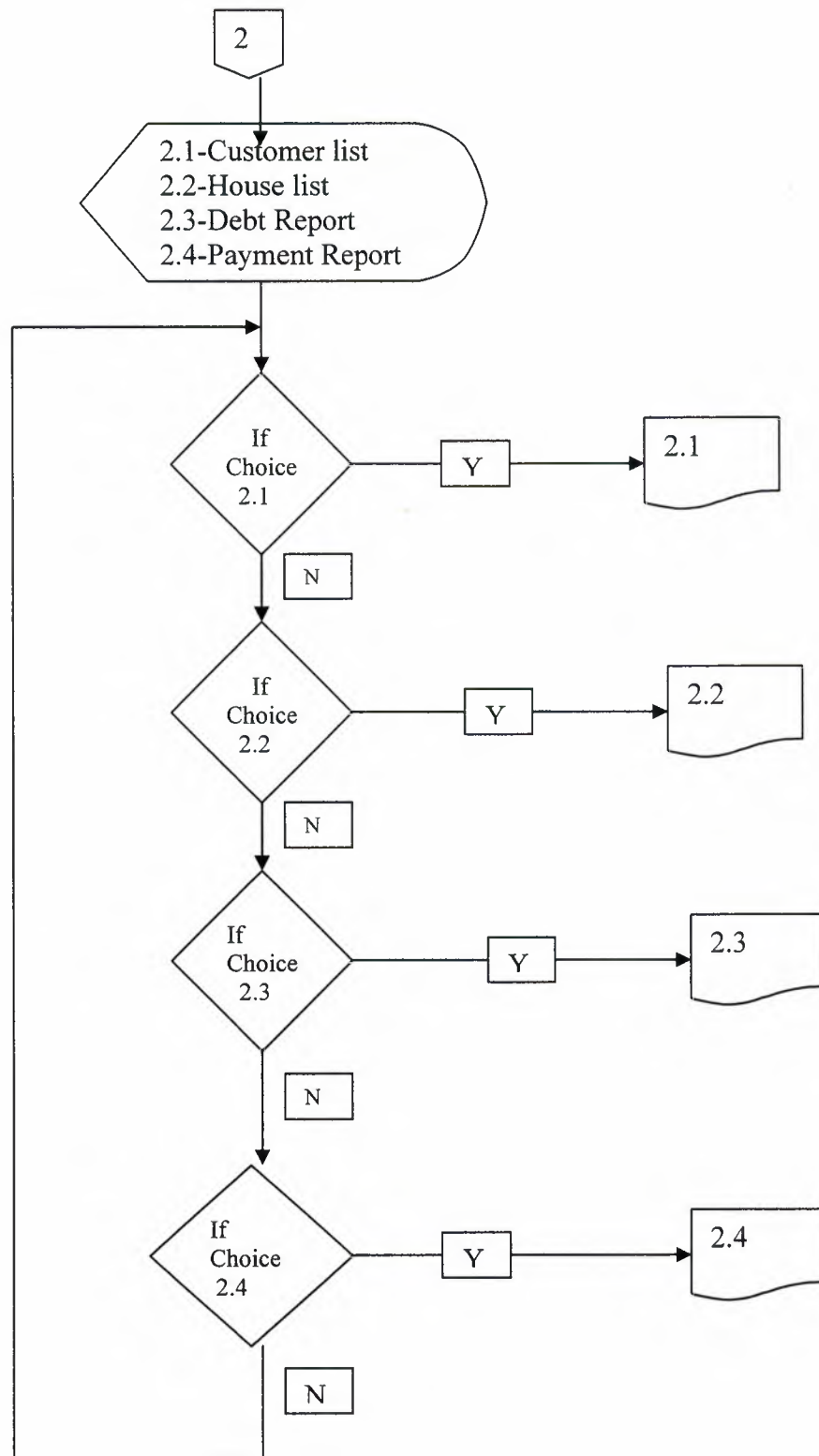


## TRANSACTION UPDATE





## REPORT



## REFERENCES

### Resources:

İhsan KARAGÜLLE, Borland DELPHI 7  
2. Edition, Türkmen Publisher House, İstanbul, 2003

Yaşar DAŞDEMİR, “ VERİTABANLARI & SQL”  
1. Edition, Türkmen Publishing House, İstanbul, 2002

### Websites:

<http://www.programlama.com/sys/c2html/view.php3?DocID=3153>  
<http://www.programlama.com/sys/c2html/view.php3?DocID=3059>  
<http://www.freevbcode.com/ShowCode.asp?ID=3717>

## SCREEN OUTPUTS



**Figure 1...:** is the password screen which must be entered from user for run this program. If the user entered wrong password three times the programs terminate.





**Figure 2...**is the main menu

**CUSTOMER**

TABLES REPORT ABOUT EXIT

Customer ID: 5403

Customer Name: ALI

Customer Surname: CAN

Customer Address: NEU

Phone no: 536-522 67 33

Search

search

Navigation buttons: [Back] [Forward] [Home] [Exit] [Refresh] [Print] [Undo] [Redo]

c_id	c_name	c_surname	c_address	c_tel
5403	ALI	CAN	NEU	536-522 67 33
6504	VELI	CAN	NEU	536-555 55 66
345	ahmet	a	erijtje	234-4567893

**Figure 3...:**is the customer menu screen that we use to enter or change customer information searches customer id and customer name.



TABLES

REPORT

ABOUT

CALCULATOR

EXIT

HOUSE

STREET

AREA

CITY

POSTALCODE

HOME TYPE

ROOM SIZE

RENT OR SALE

PRICE

1

fsw

sdf

kgk

kg

8

12324

HOUSE\_ID

SEARCH

ADD PICTURE

DELETE PICTURE

H_id	street	area	city	pcode	type	room	Rent&sale
1	fsw	sdf	kgk	kg	villa	8	villa
3	wqef	jfng	jng	jkdg		0	Hayır
2	lftg	tgfg	gfdg	gdfgd	gfd	545	Hayır
4	ataturk	19mayıs	lefkosa	10	FLAT	4	RENT

**Figure 4....:**is the house menu screen that we use to enter or change house information selected house picture are added or deleted.



**\*\*TRANSACTION\*\***

TABLES REPORT CALCULATION ABOUT EXIT

**T\_id**  **CUSTOMER ID**  **FIND**

**Customer id**

**House id**

**Debt**

**Payamount**

**Pay date**

**Cash or due**

T_id	c_id	H_id	debt	payamount	pay_date	cash&due
▶ 10	6504	6	62	150	30.06.2005	DUE

c_id	c_name	c_surname	c_address	c_tel
▶ 5403	ALI	CAN	NEU	536-55 55 66
6504	VELI	CAN	NEU	536-55 55 66

H_id	street	area	city	pcode	type	room	Rent&sale	pri
▶ 4	ataturk	19mayis	lefkosa	10	FLAT	4	RENT	
6	iureh	oiewj	welr	ew	VILLAS	4	RENT	

**Figure 5...:**is the transaction menu screen that we use to enter or change transaction information

**ERCUSTOM**

TABLES REPORT ABOUT EXIT

**Customer**  **Customer ID**  **Search**

**C name**

**C surname**

**C address**  **Customer Name**  **search**

**Phone no**

c_id	c_name	c_surname	c_address	c_tel
▶ 6504	VELI	CAN	NEU	536-555 55 66

**Figure 6...:**is the output screen that all customer report list.



HOUSE REPORT PAGE

## HOUSE REPORT

H_id	street	area	city	pcode	type	room	Rent&sale	price	picture
1	fsw	sdf	kgk	kg	villa	8	villa	12324	(BLOB)
3	wqef	jfng	jng	ikdg		0	Hayır	0	(BLOB)
2	tftg	tgfg	gfdg	gdgd	gfd	545	Hayır	54	(BLOB)
4	ataturk	19mayıs	lefkosa	10	FLAT	4	RENT	150	(BLOB)
6	iureh	oiewj	wefr	ew	VILLA	4	RENT	212	(BLOB)

Figure 7...:is the output screen that all house report list.

DEBT REPORT PAGE

## DEBT REPORT

T_id	c_id	H_id	debt	payamount	pay_date	cash&due
10	6504	6	62	150	30.06.2005	DUE

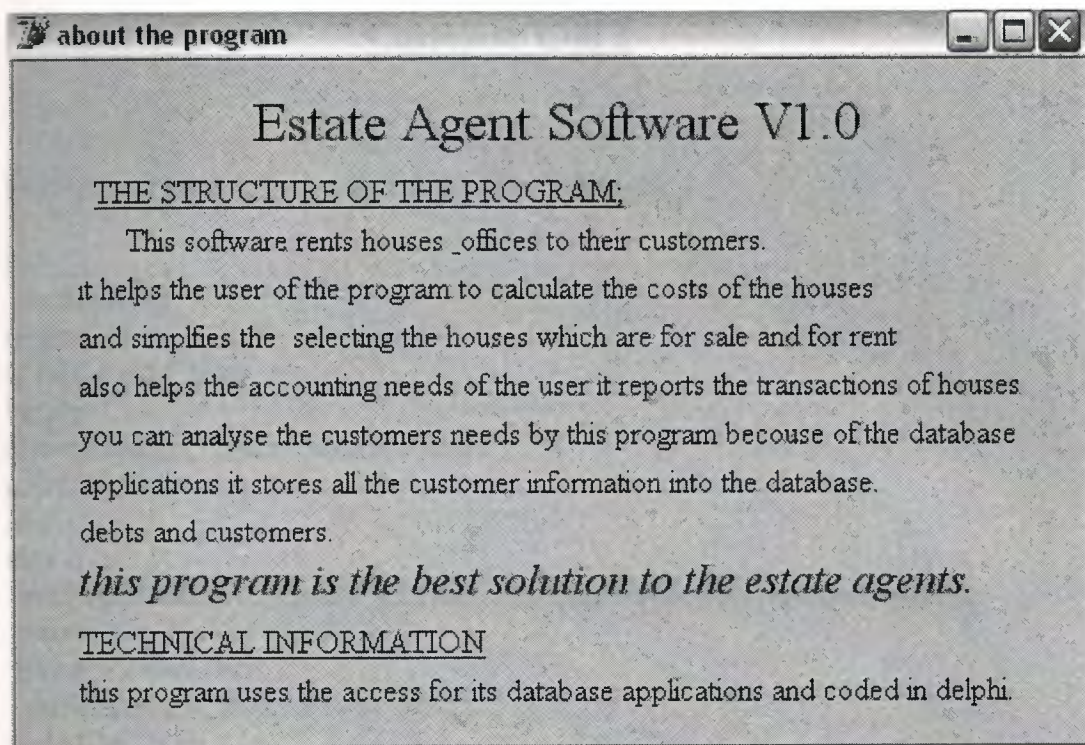
Figure 8...:is the output screen that all debt report list.

PAYMENT REPORT PAGE

## PAYMENT REPORT

T_id	c_id	H_id	debt	payamount	pay_date	cash&du
10	6504	6	62	150	30.06.2005	DUE

Figure 9...:is the output screen that all payment report list.



**Figure 10....:**is the output screen about program.



## SOURCE CODE

### Customer Unit 1

```
procedure TForm1.Button4Click(Sender: TObject);  
var  
    src:boolean;  
begin  
    if edit1.text="" then  
        begin  
            showmessage('Please Enter A Record');  
            edit1.setfocus  
        end  
    else  
        src:=ADOTable1.Locate('c_id',edit1.Text,[lopartialkey,locaseinsensitive]);  
        canvas.font.Color:=clred;  
        if not src=true then  
            showmessage('Record Not Found');  
            edit1.setfocus;  
        end;  
begin  
    Form1.Visible:=false;  
end;  
  
procedure TForm1.Timer1Timer(Sender: TObject);  
begin  
    Caption:=copy(caption,2,length(caption)-1)+caption[1];  
end;  
procedure TForm1.Button5Click(Sender: TObject);  
var src:boolean;  
begin  
    if edit2.text="" then  
        begin  
            showmessage('Please Enter A Record');  
            edit2.setfocus  
        end  
    else  
        src:=ADOTable1.Locate('c_name',edit2.Text,[lopartialkey,locaseinsensitive]);  
        canvas.font.Color:=clred;  
        if not src=true then  
            showmessage('Record Not Found');  
            edit2.setfocus;  
        end;  
end;  
  
procedure TForm1.EXIT1Click(Sender: TObject);  
begin
```

```
Application.CreateForm(TForm2, Form2);  
form2.Show;  
form1.Close;  
end;
```

```
procedure TForm1.houseadd1Click(Sender: TObject);  
begin  
Application.CreateForm(TForm2, Form2);  
form2.Show;  
form1.Close;  
end;
```

```
procedure TForm1.open1Click(Sender: TObject);  
begin  
Application.CreateForm(TForm3, Form3);  
form3.Show;  
form1.Close;  
end;
```

```
procedure TForm1.CALCULATOR1Click(Sender: TObject);  
begin  
winexec('C:\windows\system32\calc.exe',9);  
end;
```

```
procedure TForm1.DATE1Click(Sender: TObject);  
begin  
form7.show;  
end;
```

```
procedure TForm1.customerlist1Click(Sender: TObject);  
begin  
form8.show;  
  
end;
```

```
procedure TForm1.houselist1Click(Sender: TObject);  
begin  
form9.show;  
  
end;
```

```
procedure TForm1.DebtReport1Click(Sender: TObject);  
begin  
form10.show;  
end;
```

```
procedure TForm1.PaymentReport1Click(Sender: TObject);  
begin  
form11.show;  
end;
```

```
procedure TForm1.programmer1Click(Sender: TObject);
begin
form12.show;
end;
```

```
procedure TForm1.RANSACTION2Click(Sender: TObject);
begin
Application.CreateForm(TForm3, Form3);
form3.Show;
form1.Close;
end;
```

```
procedure TForm1.EXIT3Click(Sender: TObject);
begin
form1.close;
end;
```

```
end
```



## **House Unit 2**

```
procedure TForm2.Button4Click(Sender: TObject);
```

```
var
  src:boolean;
  k:real;
begin
  if edit1.text="" then
    begin
      showmessage('Please Enter A Record');
      edit1.setfocus
    end
  else
    src:=ADOtable1.Locate('H_id',edit1.Text,[lopartialkey,locaseinsensitive]);
    canvas.font.Color:=clred;
    if not src=true then
      showmessage('Record Not Found');
      edit1.setfocus;
    end;
end;
```

```
procedure TForm2.Timer1Timer(Sender: TObject);
begin
  Caption:=copy(caption,2,length(caption)-1)+caption[1];
end;
```

```
procedure TForm2.exit1Click(Sender: TObject);
begin
  Application.CreateForm(TForm1, Form1);
  form1.Show;
end;
```

```
procedure TForm2.customeradd1Click(Sender: TObject);
begin
  Application.CreateForm(TForm1, Form1);
  form1.Show;
  form2.Close;
end;
```

```
procedure TForm2.open1Click(Sender: TObject);
begin
  Application.CreateForm(TForm3, Form3);
  form3.Show;
  form2.Close;
end;
```

```
procedure TForm2.CALCULAT1Click(Sender: TObject);
```

```

begin
  winexec('C:\windows\system32\calc.exe',9);
end;

procedure TForm2.DATE1Click(Sender: TObject);
begin
  form7.show;
end;

procedure TForm2.customerlist1Click(Sender: TObject);
begin
  form8.show;
end;

procedure TForm2.houselist1Click(Sender: TObject);
begin
  form9.show;
end;

procedure TForm2.DebtReport1Click(Sender: TObject);
begin
  form10.show;
end;

procedure TForm2.PaymentReport1Click(Sender: TObject);
begin
  form11.show;
end;

procedure TForm2.programmer1Click(Sender: TObject);
begin
  form12.show;
end;

procedure TForm2.Button1Click(Sender: TObject);
begin
  if openpicturedialog1.Execute then
  begin
    image1.Picture.LoadFromFile(openpicturedialog1.FileName);
    image1.Visible:=true;
    adotable1.Edit;
    adotable1.FieldValues['picture']:=openpicturedialog1.FileName;
    adotable1.Post;
    openpicturedialog1.FileName:="";
  end;
end;

procedure TForm2.Button2Click(Sender: TObject);
begin
  openpicturedialog1.FileName:="";

```

```
image1.Visible:=false;  
adotable1.Edit;  
adotable1.FieldValues['picture']:="";  
adotable1.Post;  
end;
```

```
procedure TForm2.FormShow(Sender: TObject);  
begin  
  openpicturedialog1.FileName:="";  
  adotable1.First;  
  if adotable1.Fieldvalues['PICTURE']<>null then  
    begin  
      image1.Visible:=true;  
      openpicturedialog1.FileName :=adotable1.fieldvalues['picture'];  
      // image1.Picture.LoadFromFile(openpicturedialog1.FileName);  
    end;  
  end;  
end;
```

```
procedure TForm2.ADOTable1 AfterScroll(DataSet: TDataSet);  
begin  
  
  if adotable1.fieldvalues['picture']<>" then  
    {begin  
      openpicturedialog1.FileName:=adotable1.fieldvalues['picture'];  
      image1.Picture.LoadFromFile(openpicturedialog1.FileName);  
      // image1.Visible:=true;  
    end  
    else  
      image1.Visible:=false;  
    }  
  end;  
end;
```

```
procedure TForm2.RANSAction2Click(Sender: TObject);  
begin  
  Application.CreateForm(TForm3, Form3);  
  form3.Show;  
end;
```

```
procedure TForm2.EXIT3Click(Sender: TObject);  
begin  
  form2.Close ;  
end;
```

```
end.
```

```
begin  
  Application: TApplication;  
  Form1.Show;  
  Form3.Close;  
end;
```



### **Transaction Unit 3**

```
procedure TForm3.Button5Click(Sender: TObject);
```

```
    var  
    src:boolean;  
begin  
    if edit2.text="" then  
    begin  
        showmessage('Please Enter A Record');  
        edit2.setfocus  
    end  
    else  
        src:=ADOTable1.Locate('T_id',edit2.Text,[lopartialkey,locaseinsensitive]);  
        src:=ADOTable2.Locate('h_id',edit2.Text,[lopartialkey,locaseinsensitive]);  
        src:=ADOTable3.Locate('C_id',edit2.Text,[lopartialkey,locaseinsensitive]);  
        canvas.font.Color:=clred;  
        if not src=true then  
            showmessage('Record Not Found');  
            edit2.setfocus;  
        end;  
end;
```

```
procedure TForm3.Timer1Timer(Sender: TObject);  
begin  
    Caption:=copy(caption,2,length(caption)-1)+caption[1];  
end;
```

```
procedure TForm3.CULCULATOR1Click(Sender: TObject);  
begin  
    winexec('C:\windows\system32\calc.exe',9);  
end;
```

```
procedure TForm3.DATE1Click(Sender: TObject);  
begin  
    FORM7.SHOW;  
end;
```

```
procedure TForm3.exit1Click(Sender: TObject);  
begin  
    Application.CreateForm(TForm1, Form1);  
    form1.Show;  
    form3.Close;  
end;
```

```
procedure TForm3.customeradd1Click(Sender: TObject);
begin
  Application.CreateForm(TForm1, Form1);
  form1.Show;
  form3.Close;
end;
```

```
procedure TForm3.houseadd1Click(Sender: TObject);
begin
  Application.CreateForm(TForm2, Form2);
  form2.Show;
  form3.Close;
end;
```

```
procedure TForm3.customerlist1Click(Sender: TObject);
begin
  form8.show;
end;
```

```
procedure TForm3.houselist1Click(Sender: TObject);
begin
  form9.show;
end;
```

```
procedure TForm3.DebtReport1Click(Sender: TObject);
begin
```

```
  form10.show;
  // ADOQuery1->Close();
  //ADOQuery1->SQL->Clear();
  //ADOQuery1->SQL->Add("SELECT EmpNo, LastName, FirstName, HireDate");
  //ADOQuery1->SQL->Add("FROM Employee");
  //ADOQuery1->Open();
end;
```

```
procedure TForm3.PaymentReport1Click(Sender: TObject);
begin
  form11.show;
end;
```

```
procedure TForm3.ABOUT1Click(Sender: TObject);
begin
  form12.show;
end;
```

```
procedure TForm3.ADOTable1AfterScroll(DataSet: TDataSet);
begin
  {adotable2.Open;
  if (strtointdef(dbedit3.text,0)>0) then
    begin
```

```
ADOTable2.Locate('h_id',dbedit3.Text,[lopartialkey,locaseinsensitive]);
```

```
if adotable2.fieldvalues['picture'] <> '' then
begin
openpicturedialog1.FileName:=adotable2.fieldvalues['picture'];
image1.Picture.LoadFromFile(openpicturedialog1.FileName);
image1.Visible:=true;
end
else
image1.Visible:=false;
end
else
image1.Visible:=false;
}
end;
```

```
procedure TForm3.FormShow(Sender: TObject);
begin
ADOTable2.Locate('h_id',dbedit3.Text,[lopartialkey,locaseinsensitive]);
if adotable2.Fieldvalues['PICTURE'] <> null then
begin
image1.Visible:=true;
openpicturedialog1.FileName :=adotable2.fieldvalues['picture'];
//image1.Picture.LoadFromFile(openpicturedialog1.FileName);
end;
end;
```

```
procedure TForm3.HOUSE2Click(Sender: TObject);
begin
Application.CreateForm(TForm2, Form2);
form2.Show;
form3.Close;
end;
```

```
procedure TForm3.CALCULATOR1Click(Sender: TObject);
begin
winexec('C:\windows\system32\calc.exe',9);
end;
```

```
procedure TForm3.EXIT3Click(Sender: TObject);
begin
form3.CLOSE;
end;
```

```
end
```



## **Mainmenu Unit 4**

```
procedure TForm4.Button1Click(Sender: TObject);  
begin  
  form5.show;  
end;
```

```
procedure TForm4.Button2Click(Sender: TObject);  
begin  
  form12.show;  
end;
```

```
procedure TForm4.Button3Click(Sender: TObject);  
begin  
  application.Terminate  
end;
```

```
procedure TForm4.EXIT1Click(Sender: TObject);  
begin  
  Application.CreateForm(TForm1, Form1);  
  form1.Show;  
end;
```

```
procedure TForm4.DATE1Click(Sender: TObject);  
begin  
  form7.show;  
end;
```

```
procedure TForm4.FormCreate(Sender: TObject);  
begin  
  panel1.Color:=clskyblue;  
  form4.Close;  
end;
```

```
procedure TForm4.customerlist1Click(Sender: TObject);  
begin  
  Application.CreateForm(TForm8, Form8);  
  form8.show;  
end;
```

```
procedure TForm4.houselist1Click(Sender: TObject);  
begin  
  Application.CreateForm(TForm9, Form9);  
  form9.show;  
end;
```

```
procedure TForm4.DebtReport1Click(Sender: TObject);
```

NEAR EAST UNIVERSITY



FACULTY OF ECONOMICS AND  
ADMINISTRATIVE SCIENCE

DEPARTMENT OF COMPUTER  
INFORMATION SYSTEMS

2004/2005 SPRING TERM

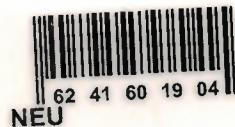
CIS 200  
(Graduation Project)

Subject : ESTATE AGENT

**Submitted To : Department of C.I.S**

**Submitted By : MUSTAFA BAKİ (20012053)**

**LEFKOŞA  
2005**





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I also would like to thank my family for their help and support potency for being next to me.

I especially thank them for their knowledge and potency they showed during the preparation of this project.

## **ABSTRACT**

This project is about computer technologies it's designed to hold the daily information of the company inputs and outputs of the business. It is designed to satisfy every department's request.

The project is made out of different department Customer, Supplier, Stock, Account, and Report departments enabled the store daily transactions of company.

## INTRODUCTION

I want to prepare a project that is Estate Agents, which is called Agent Rent & Sale system. These Estate Agent is collect house or flat from householder and rent or sale to teh customer. The Agent has a power of a bridge between householder and customer who wants to have a rental house&flat.

This program has four process; these are :

- **Customer Process**
- **House Process**
- **Transaction Process**
- **Owner Process**

**Customer process** In this process, we can entered data like customer id,customer name,customer surname,customer address, and customer phone number.For each customer we give unigue customer (c\_id).

**House process** Include a from for entering data like house\_id,street, area, postcode,type room,rent&sale, price and house picture. Each house has own House\_id(H\_id).It is unigue.

***And House Process include GroupBox.*** This Groupbox show us District of the Lefkosa and Area of the City

**Transaction process** In this process, we can entered data like Transaction\_id, customer\_id, House,\_id, debt, payamount, payment date and cash&due.In this process we can see customer information and house&flat information that store in cash payment or due to payment. For each transaction we give unigue Transaction\_id.

**Owner process** In this process, we can entered data like Householder informatin which house that *who has own house.*

**Report process** has four sub-process, these are:

- **Customer List**
- **House List**
- **Payment Report List**
- **Debt Report List**

In these process, Customer List we can see customer that how many customer are store in database and House List we can see house that how many house are store in database.Allso in Payment Report List can see that customer due to pay or cash payment are listed. Dept Report List can only see dept list.



## **EXPLANATION**

# **ESTATE AGENT SOFTWARE**

### **THE STRUCTURE OF THE PROGRAM**


This software rents houses\_office to their customer it helps the user of the program to calculator the custs of the housess and simplefies the selecting the houses which are for sale and for rent also helps the accounting needs of the user it reports the transactions of houses you can analyse the customers needs buy this program because of the database applications it stores all the customer information into the database debts and customers

*This program is the solution to the estata agent.*

### **TECHNICAL INFORMATION**

This program uses the **ACCESS** for its database applications and coded in **Delphi** and **SQL**

# customer : Table

Field Name	Data Type	Description
 c_name	Number	
c_surname	Text	
c_address	Text	
c_tel	Text	
	Number	

## Field Properties

### General

Field Size Integer

Format Auto

Decimal Places 0

Input Mask No

Caption Yes (No Duplicates)

Default Value

Validation Rule

Validation Text

Required

Indexed

A field name can be up to 64 characters long, including spaces. Press F1 for help on field names.



customer : Table

c_id	c_name	c_surname	c_address	c_tel
1	ndsfk	fkwmj	wkef	23453
T_id	H_id	dept	payamount	pay_date
9	3	100	50	11.02.2004 DUE
10	4	200	0	10.05.2005 CASH
(AutoNumber)	0	0	0	
2	fewsf	ewsf	wesf	35
T_id	H_id	dept	payamount	pay_date
8	2	35	35	12.12.2000 DUE
(AutoNumber)	0	0	0	
0				0

Record: 2 of 2



# house : Table

Description

Field Name	Data Type	
H_id	Number	
street	Text	
area	Text	
city	Text	
pcode	Text	
type	Text	
room	Number	
Rent&sale	Text	

## Field Properties

### General

Field Size 15

Format

Input Mask

Caption

Default Value

Validation Rule

Validation Text

Required

Allow Zero Length

Indexed

Unicode Compression

IME Mode

IME Sentence Mode

The data type determines the kind of values that users in the field. Press F1 for help on data types.



## house : Table

	H_id	street	area	city	pcode	type	room	Rent&sale	pri
+	1	fsw	sdf	kgk	kg	villa	8	rent	
-	2	tftg	tgfg	gfdg	gdfgd	gfd	545	sale	
	T_id	c_id	dept	payamount	pay_date	cash&due			
	8	2	35	35	12.12.2000	DUE			
*	(AutoNumber)	0	0	0					
+	3	wqef	jfng	jng	jkdg	flat	0	rent	
▶	0						0		



# Transaction : Table

	Field Name	Data Type	Description
?	T_id	AutoNumber	
	c_id	Number	
	H_id	Number	
	dept	Number	
	payamount	Number	
▶	pay_date	Date/Time	
	cash&due	Text	

## Field Properties

### General

Format

Input Mask

Caption

Default Value

Validation Rule

Validation Text

Required

Indexed

IME Mode

IME Sentence Mode

99.99.00;0;\_

No

No

No Control

None

The data type determines the kind of values that users can store in the field. Press F1 for help on data types.



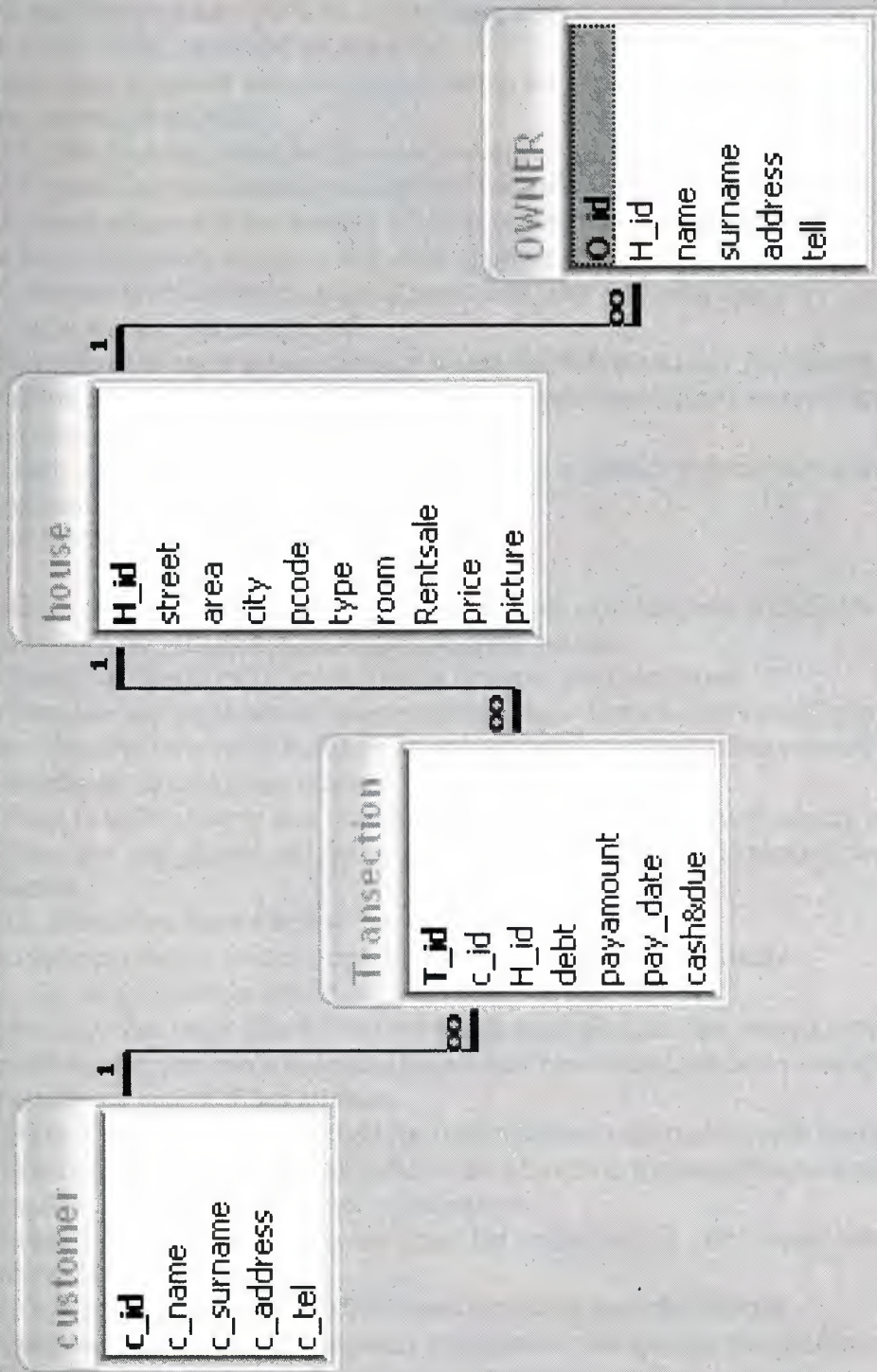
# Transaction : Table

	T_id	c_id	H_id	dept	payamount	pay_date	cash&due
	8	2	2	35	35	12.12.2000	DUE
	9	1	3	100	50	11.02.2004	DUE
Ø	11	3	4	0	300	06.06.2005	CASH
*	(AutoNumber)	0	0	0	0		

Record: 3 of 3



# Relationships





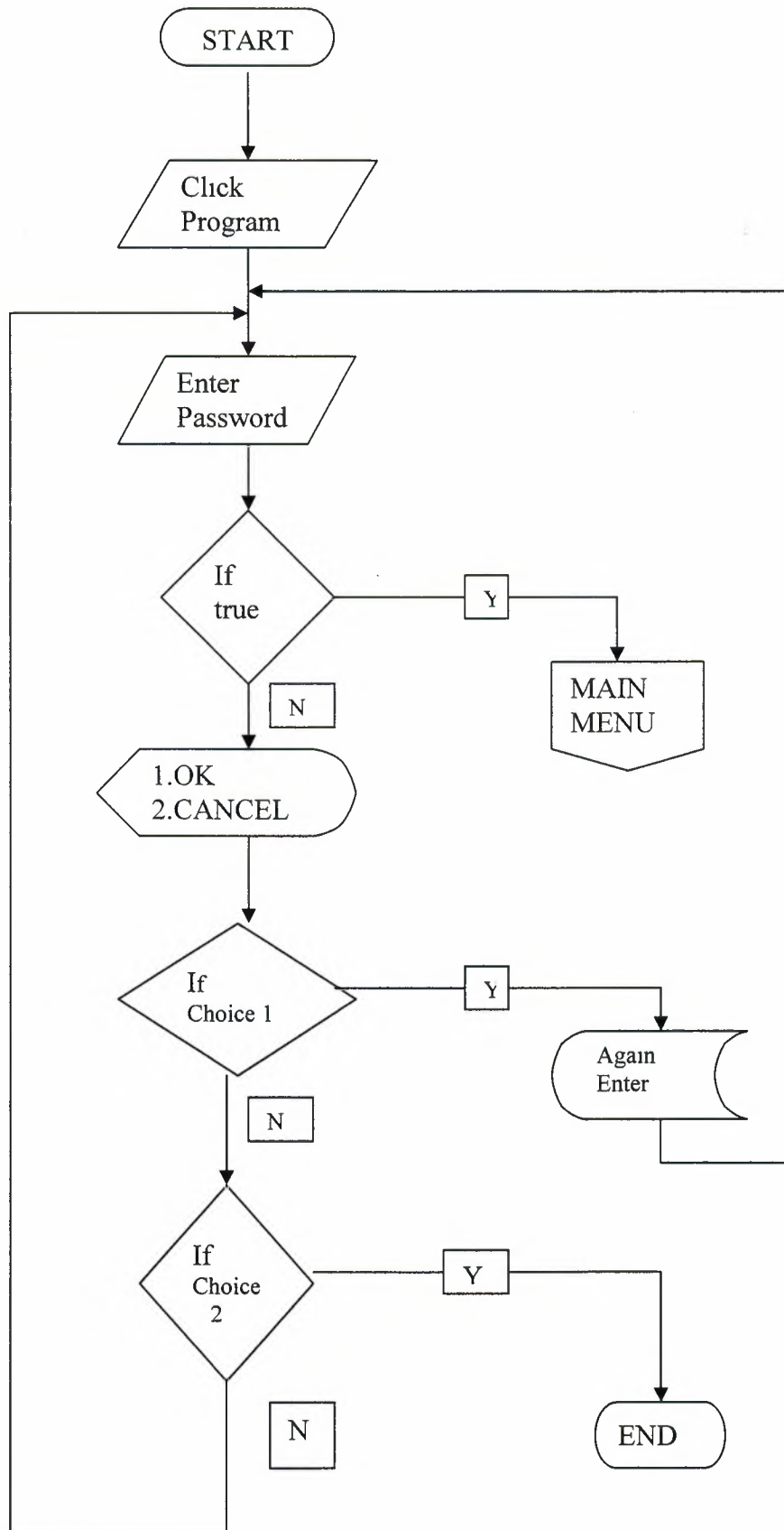
# ***USER MANUAL***

1. Estate Agent Software program are started with 'Enter Program' button .
2. 'Please Enter Password' text are appears and user has to enter password.  
OK is run the program CANCEL is terminate and exit program also if user can enter three times wrong password program exit.
3. Main Menu is appear with two button which are about program and exit. four manus are tables ,reports,about,exit.
  1. Tables includes customer process,house process,transaction process.
  2. Reports includes house list ,customer list ,debt report list and payment report list.
  3. About program is has strcture of program and tecnical information.
  4. Exit is terminate program and close application.
4. Customer process (tables ,reports,about,exit) has text with fields  
c\_id,c\_name,c\_surname,c\_tel.  
Navigator has eight action fanchion which show first and last record,step by step records,save new records,delete records,add new records,update records and new records are cancel if has mistake.  
There are two search botton that used for find customer information with useing custumer id and customer name.  
All records are shown below the window.
5. House process (tables ,reports,about,culculator,exit) has text with fields h\_id,street area, city, pcode,type,room,rent&sale,price, picture.  
Calculator menus call ms calculation to make any calculation.  
Navigator has eight action fanchion which show first and last record,step by step records,save new records,delete records,add new records,update records and new records are cancel if has mistake.  
There is search botton that used for find house information with useing house id  
There are add picture and delete picture bottom action is add picture or delete house picture.  
All records are shown below the window.
6. Customer process (tables ,reports,about,exit) has text with fields  
t\_id,c\_id,h\_id,debt,payment,paye date,cash or due.  
Navigator has eight action fanchion which show first and last record,step by step records,save new records,delete records,add new records,update records and new records are cancel if has mistake.  
There is search botton that used for find customer information with useing custumer id  
There are three dbgrid shown bellow one of them is transaction action are shown another is house and customer informations.
7. Reports Menus has four process house list ,customer list ,debt report list and payment report list.  
House list is listed all house information that are recorded before.  
Customer list is listed all customer information that are recorded before.  
Debt Report list is listed all customer payment that are due to pay.  
Payment Report list is listed all customer cash& due payment.
8. Exit menus has process that back to the main menu just only mein menus exit is terminates and close program.

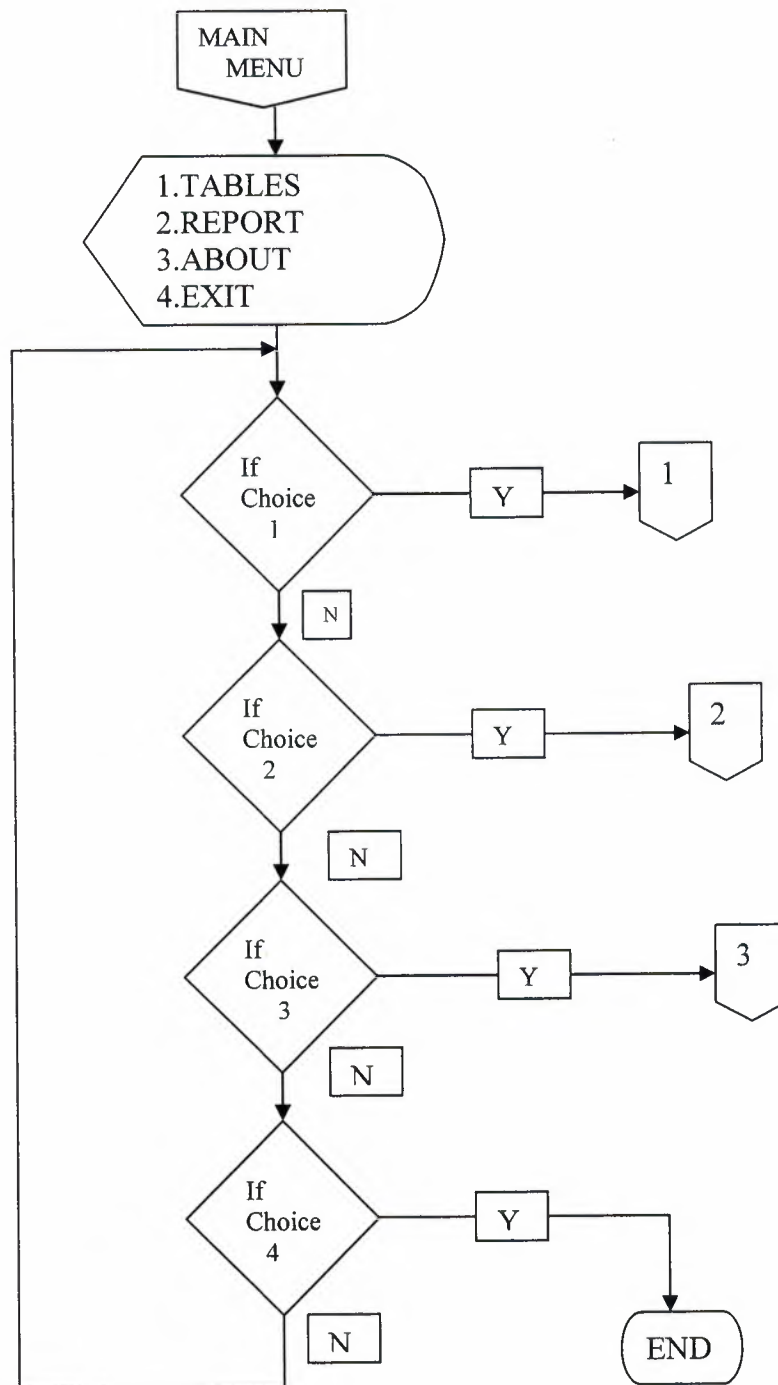


# FLOWCHART

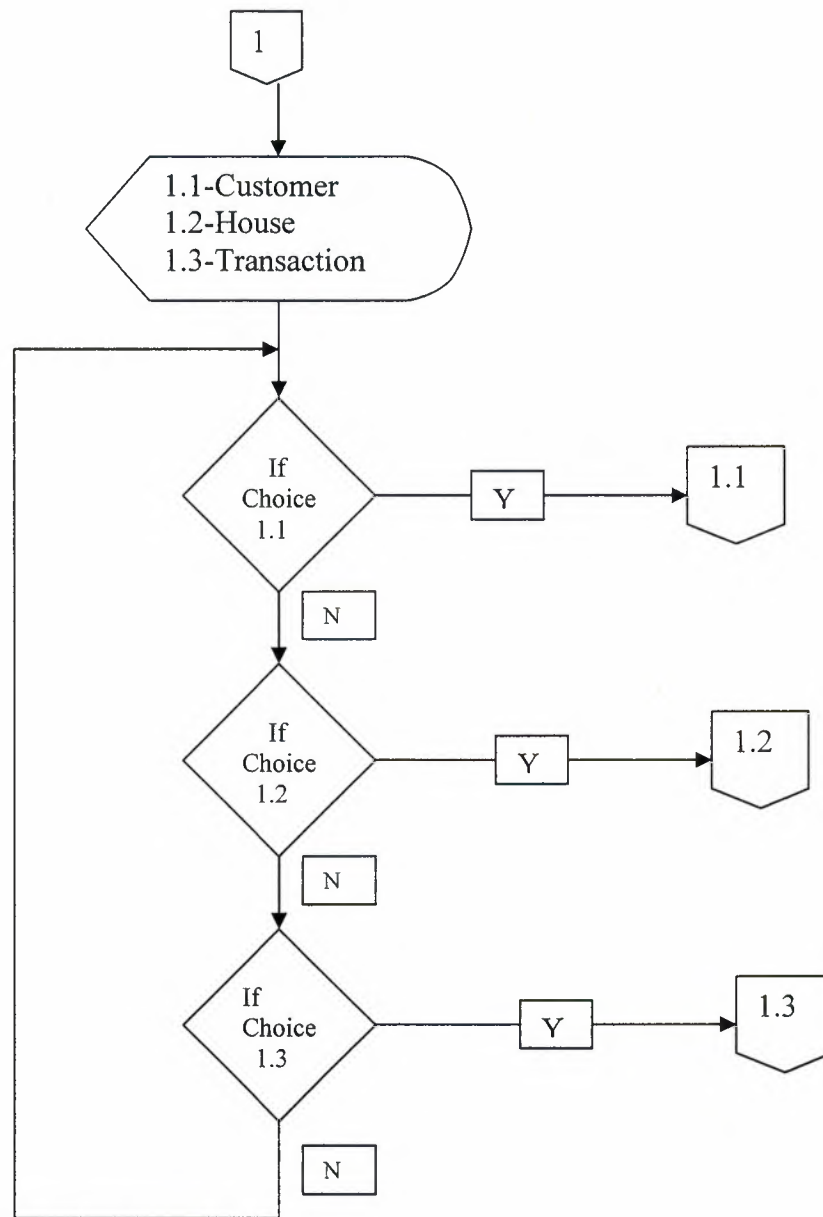
USER ENTER



# MAINMENU

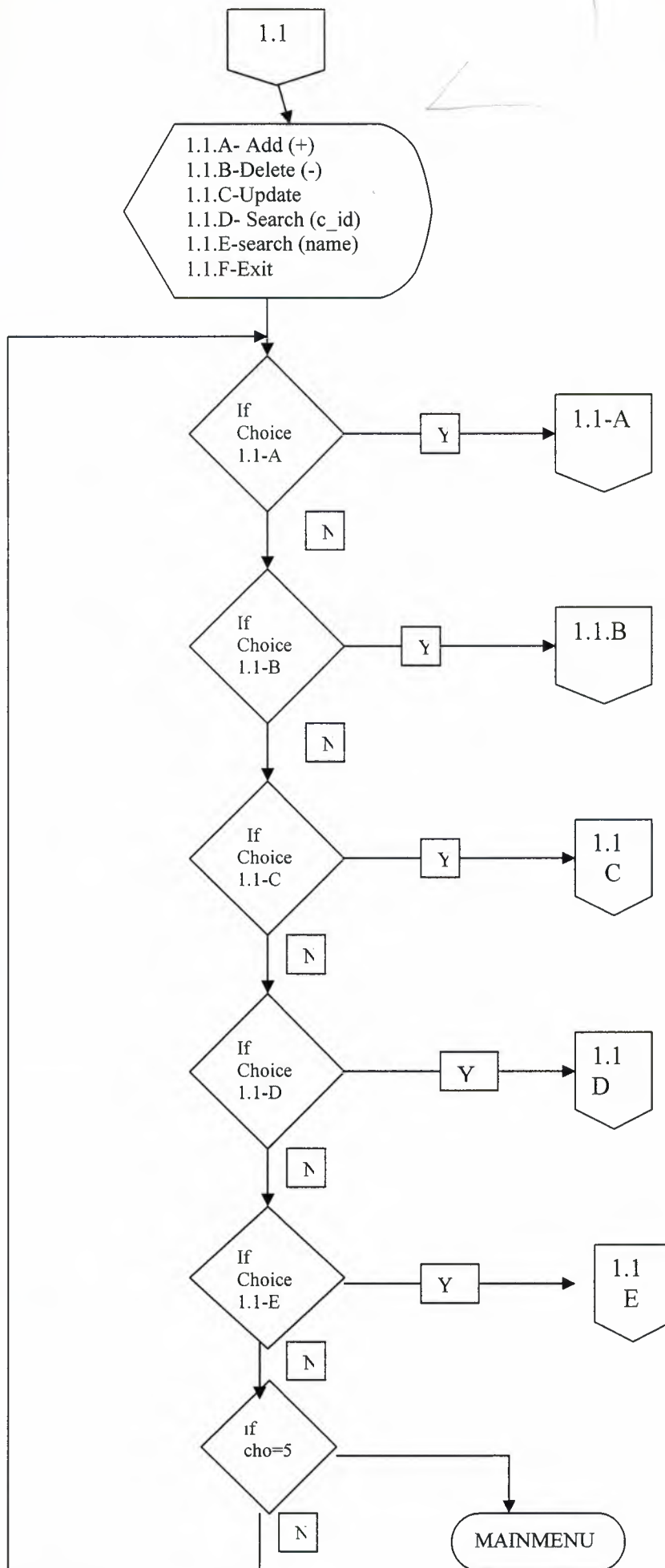


## TABLES

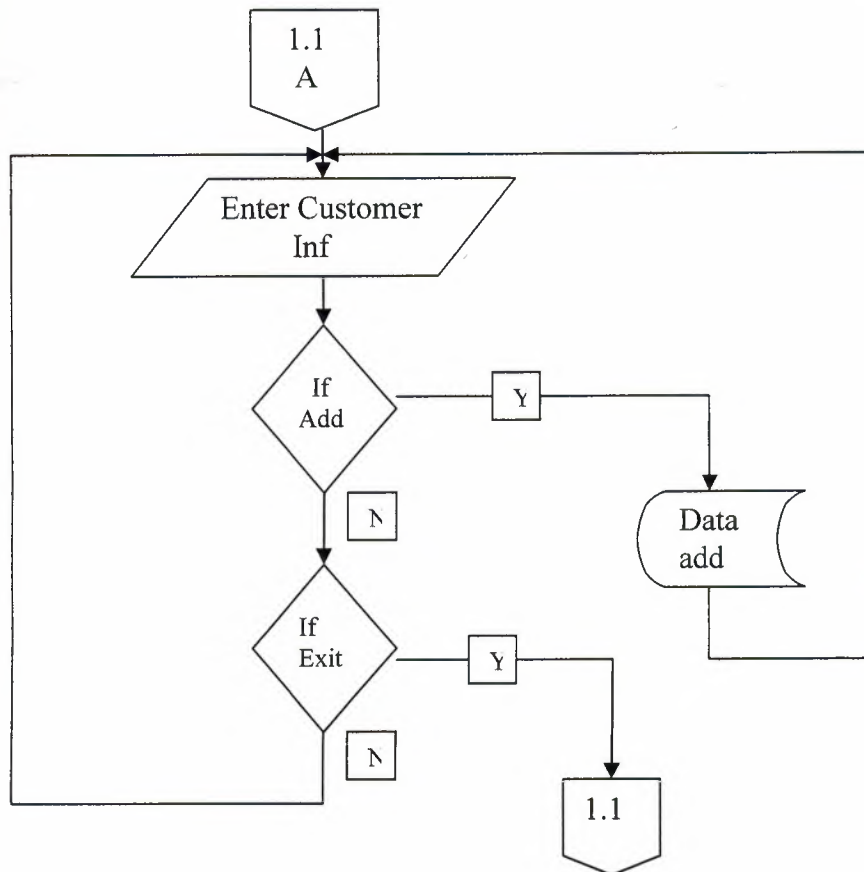




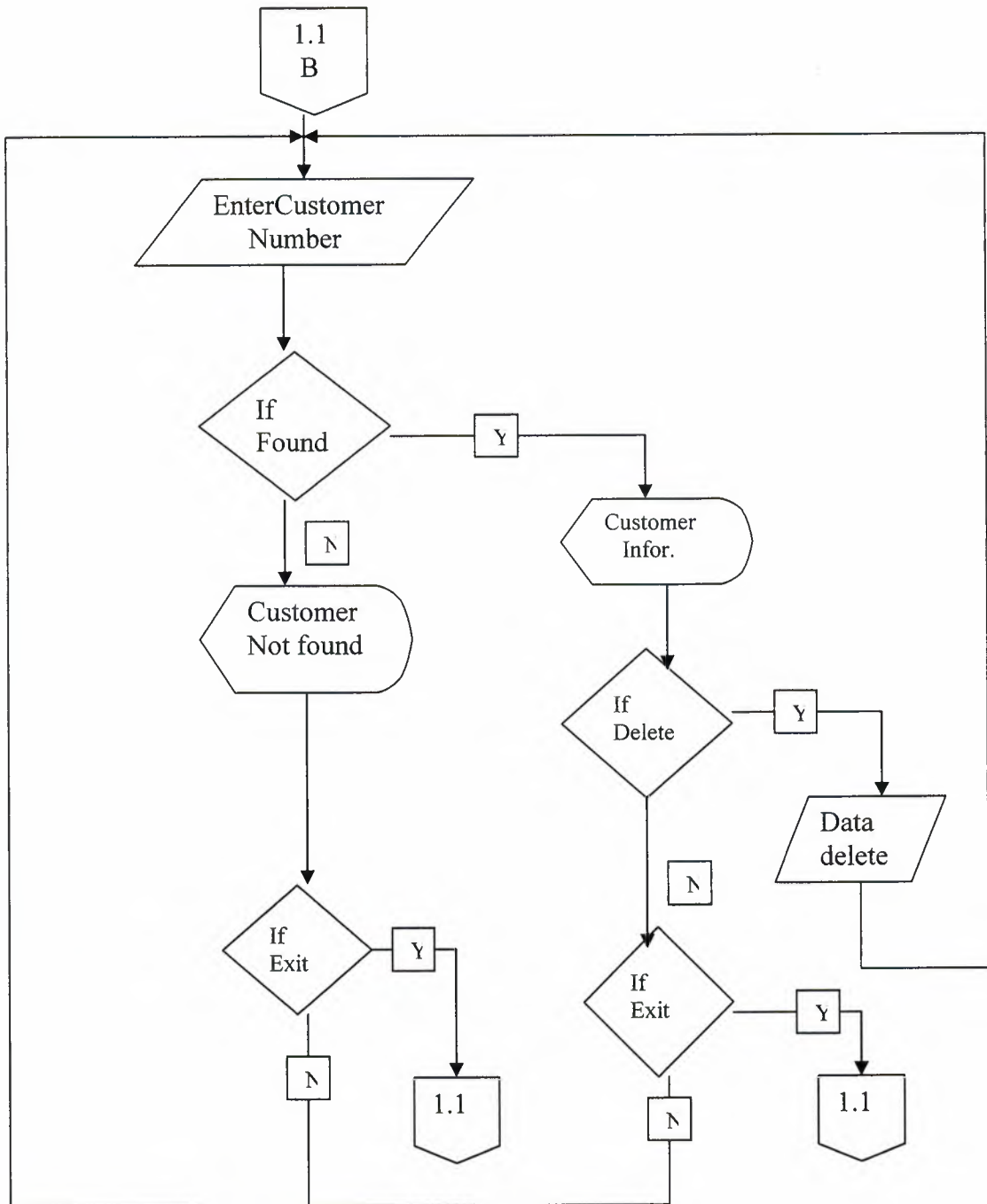
## CUSTOMER



## CUSTOMER ADD

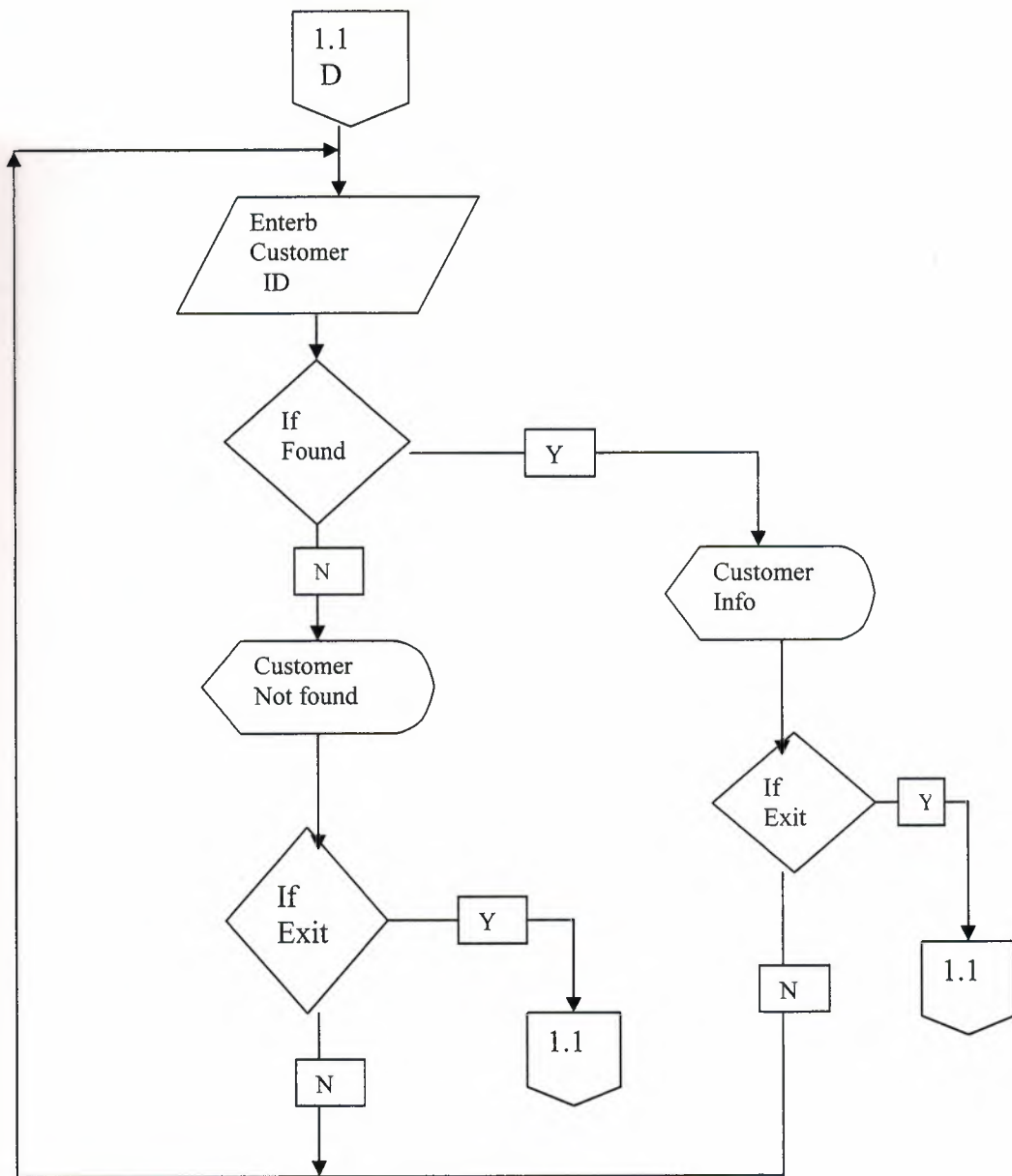


## CUSTOMER DELETE

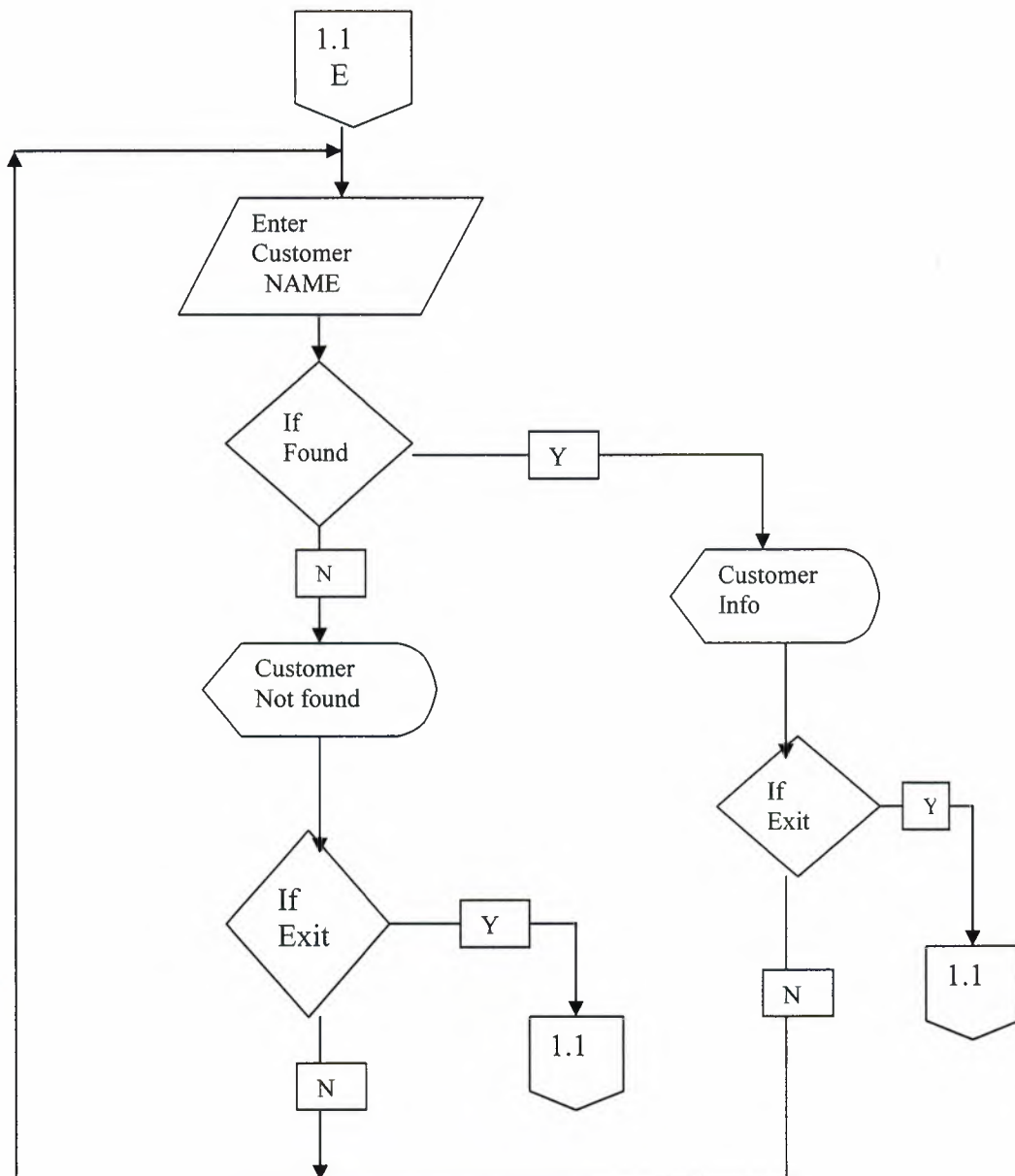




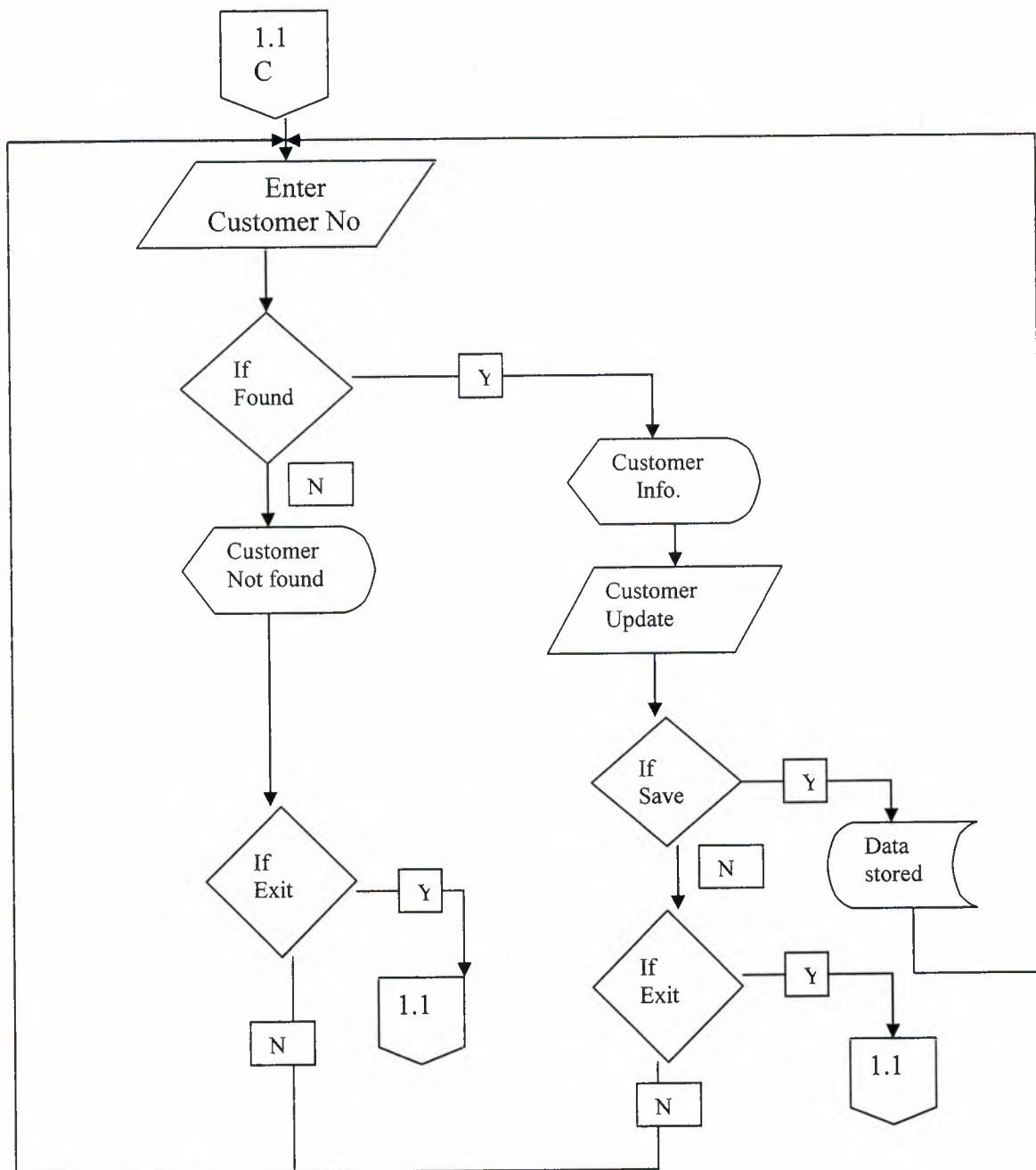
# CUSTOMER SEARCH (C ID)



## CUSTOMER SEARCH (NAME)

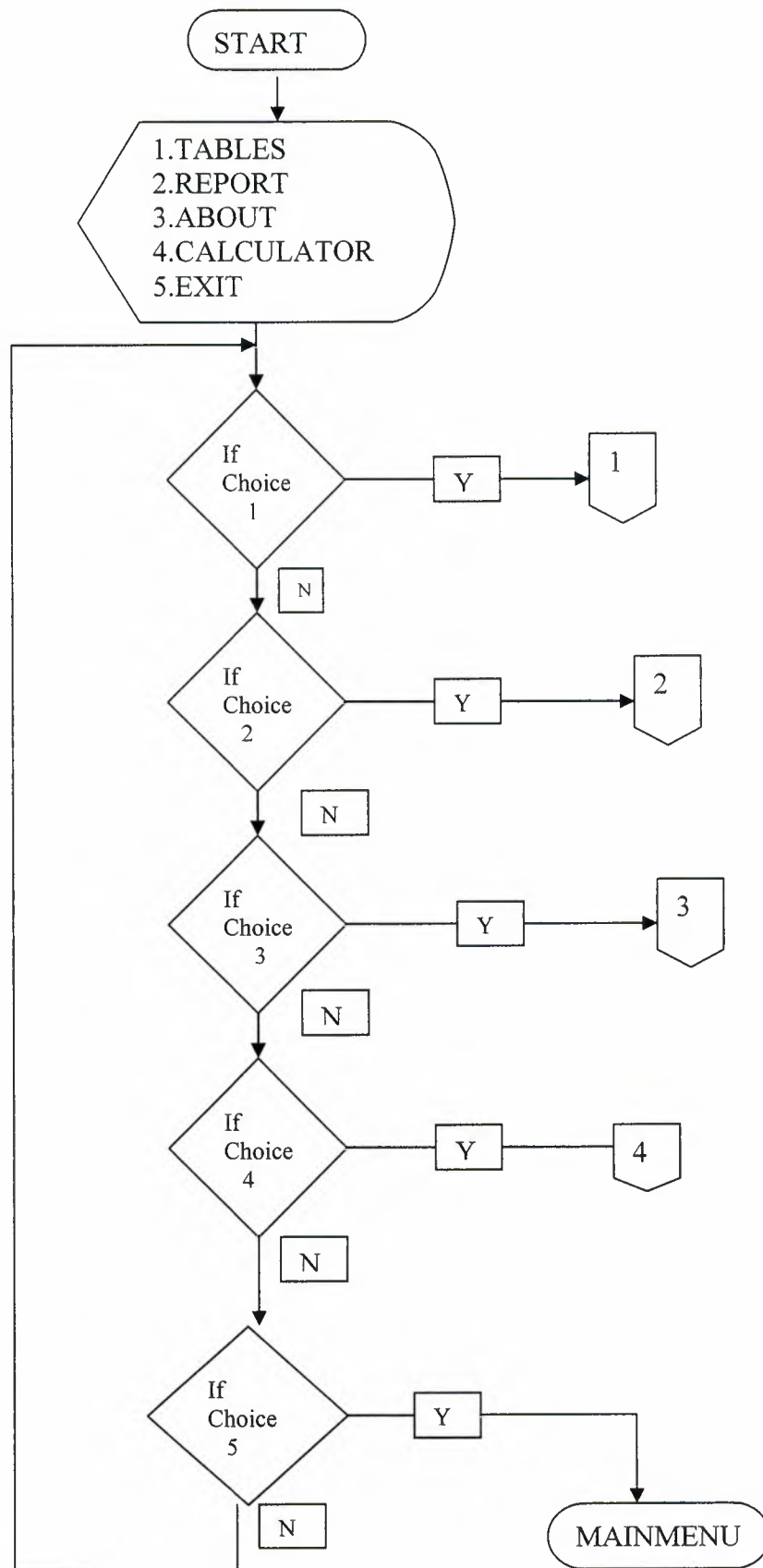


## CUSTOMER UPDATE

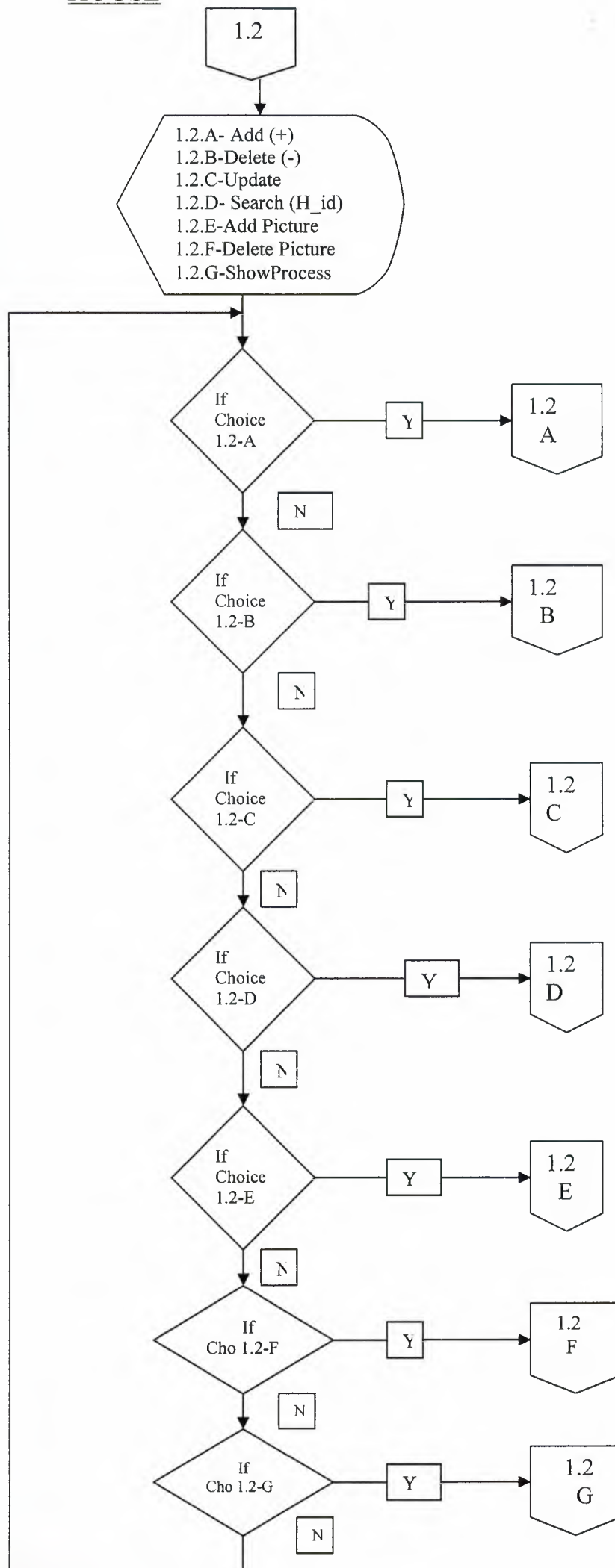




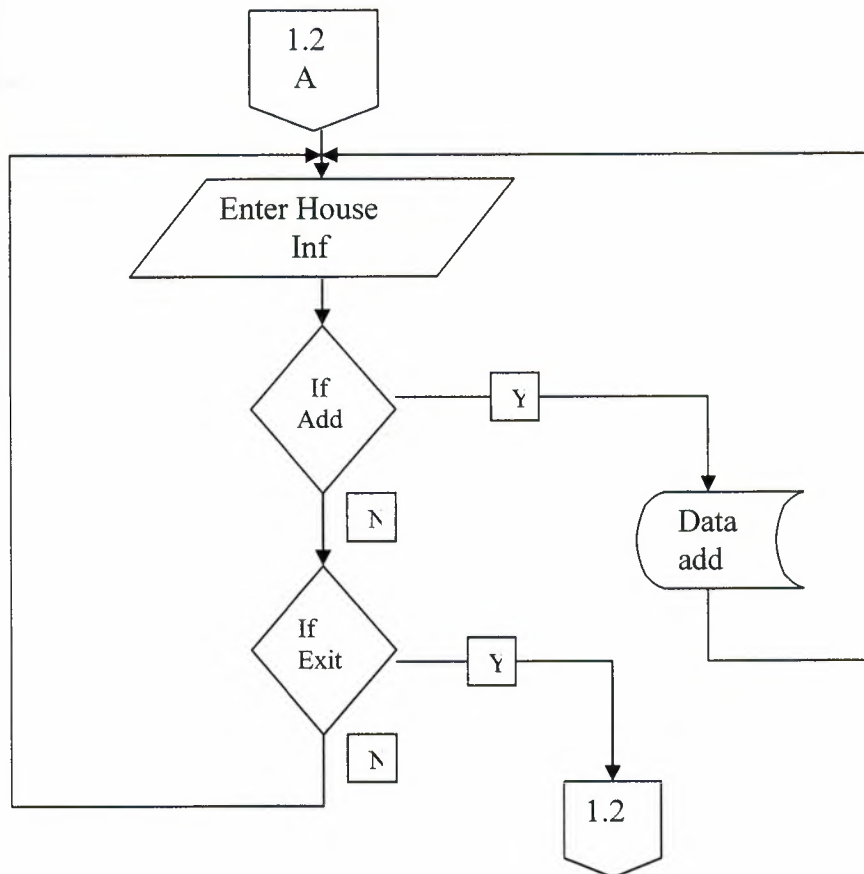
## HOUSE PROCESS



# HOUSE

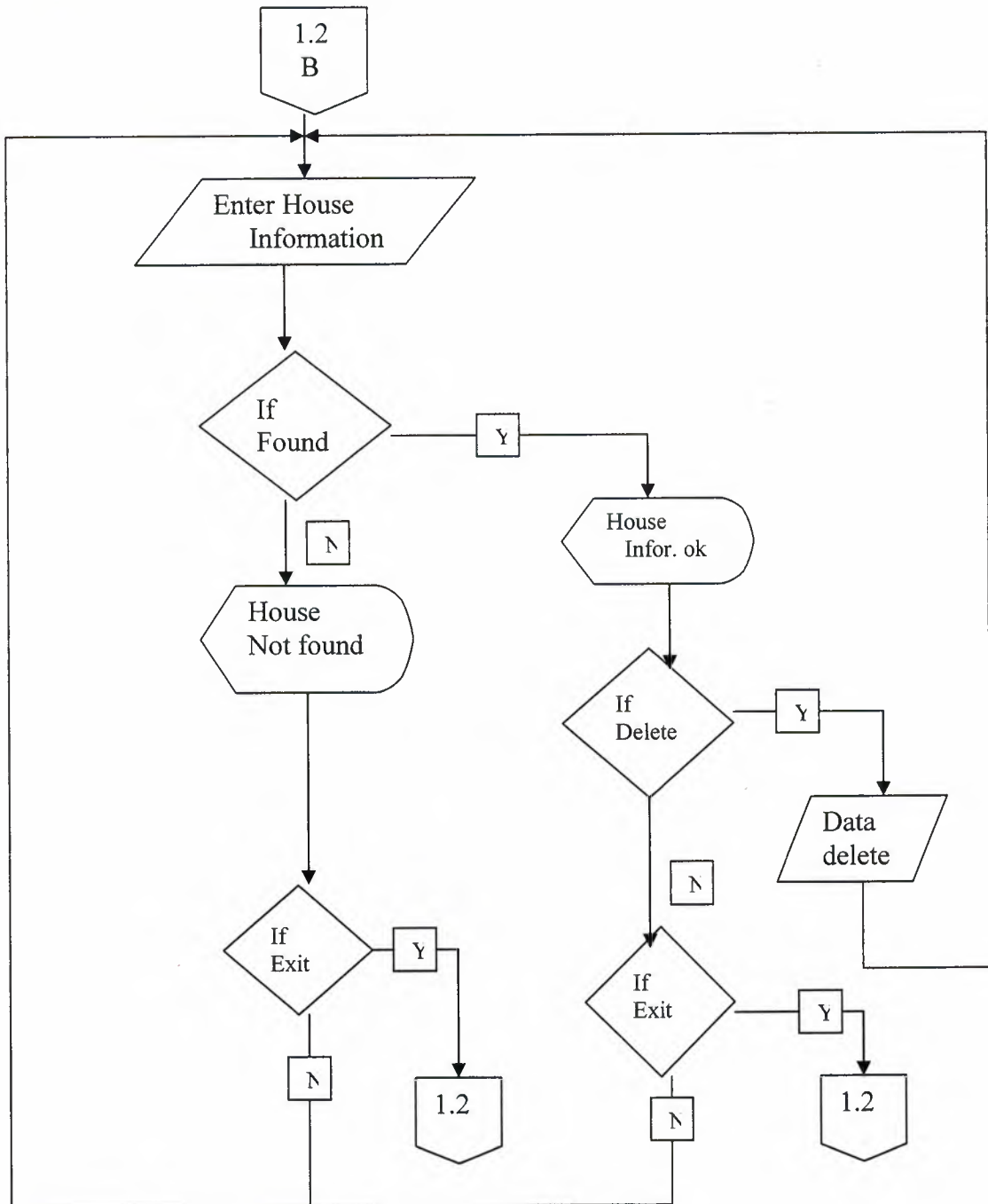


## HOUSE ADD

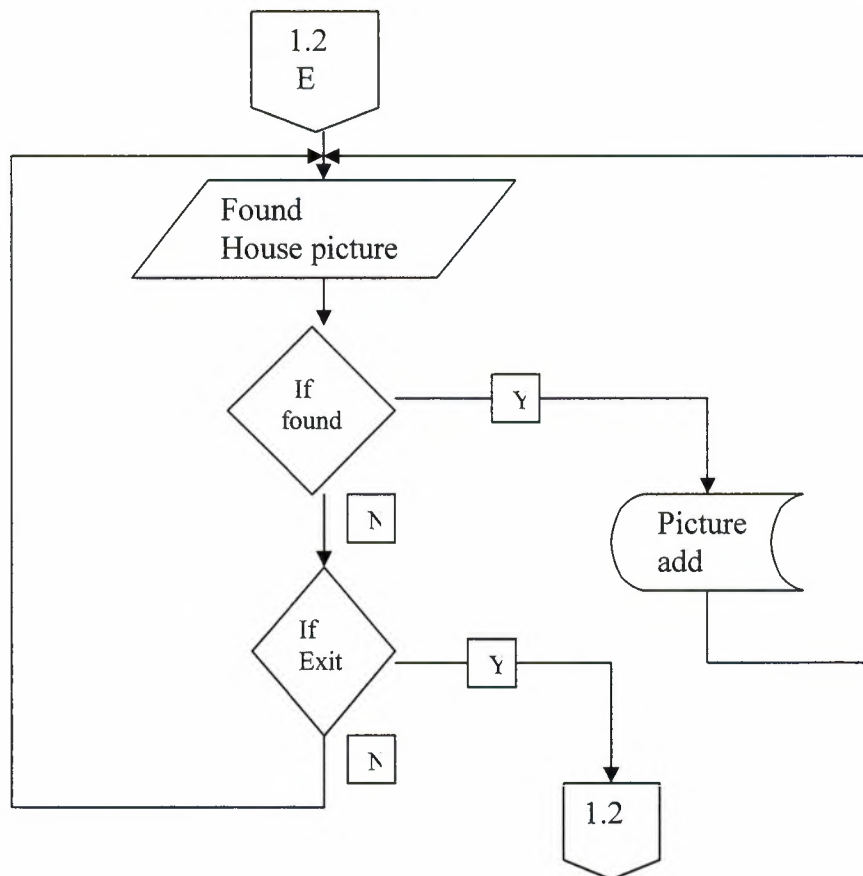




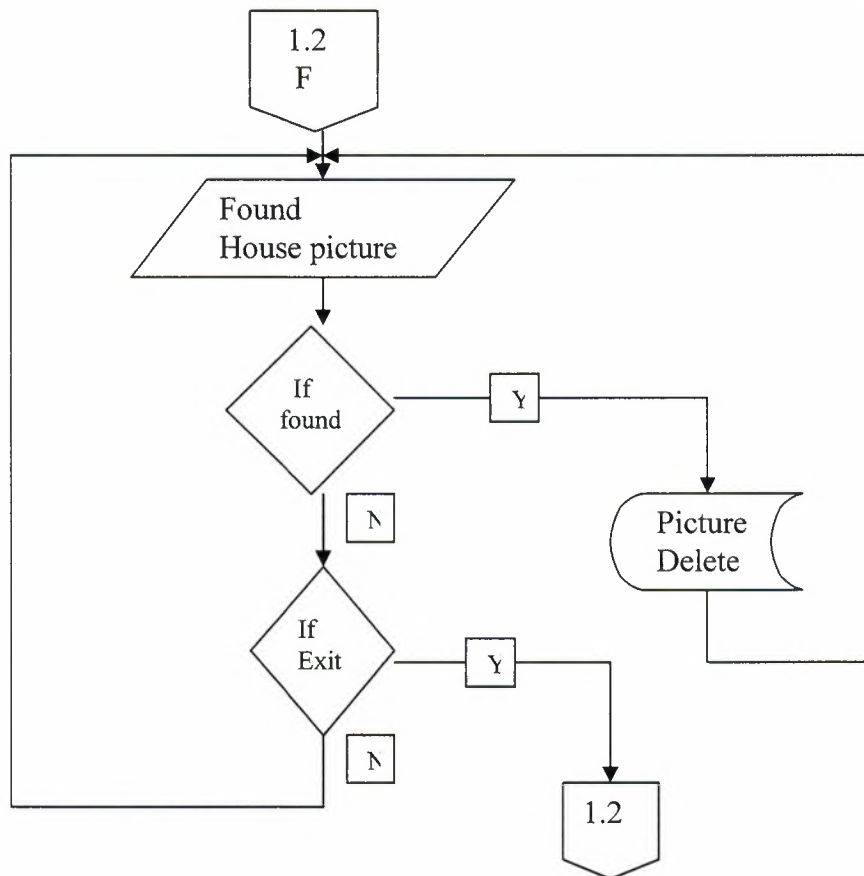
## HOUSE DELETE



## HOUSE ADD PICTURE

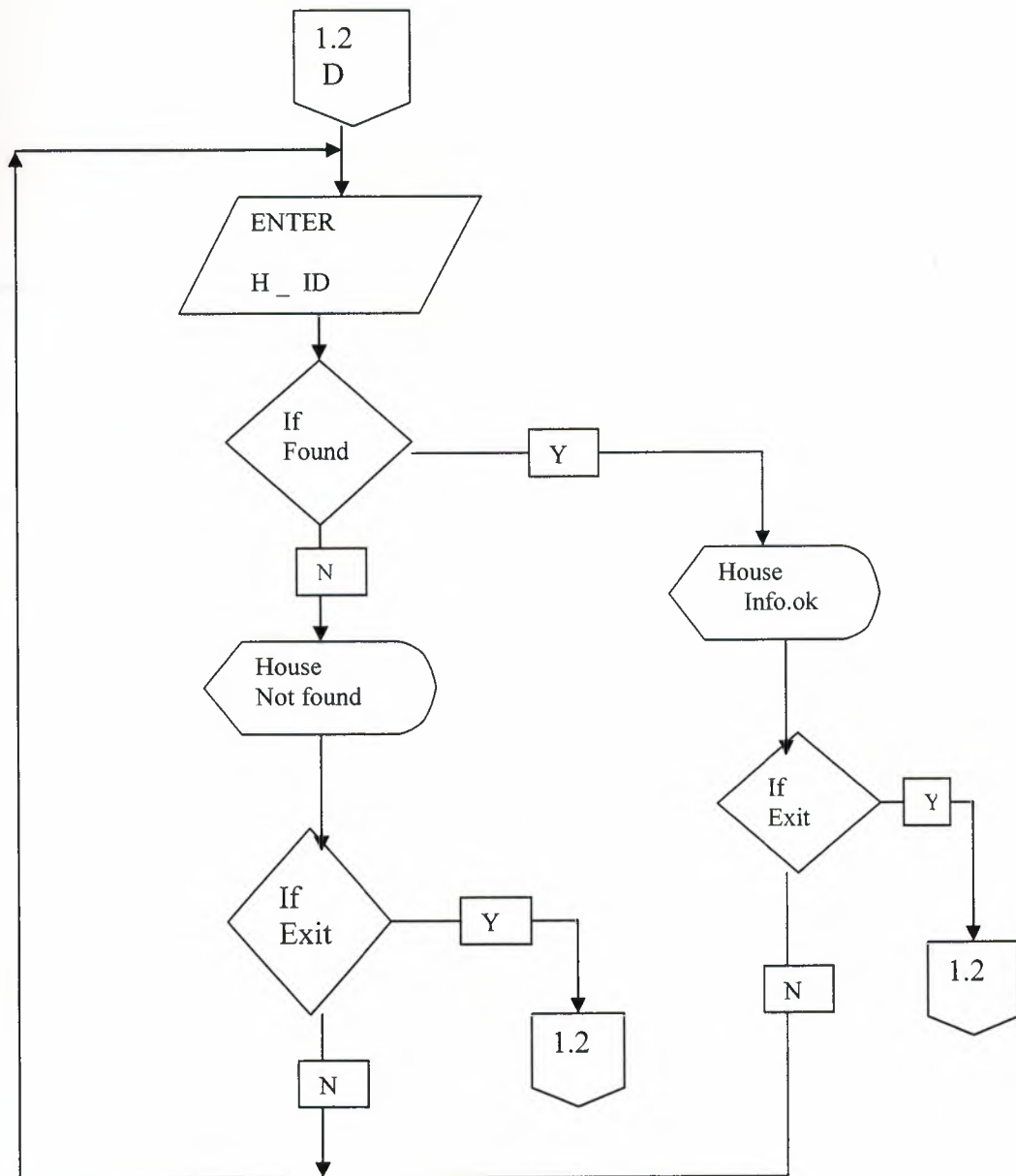


## HOUSE DELETE PICTURE

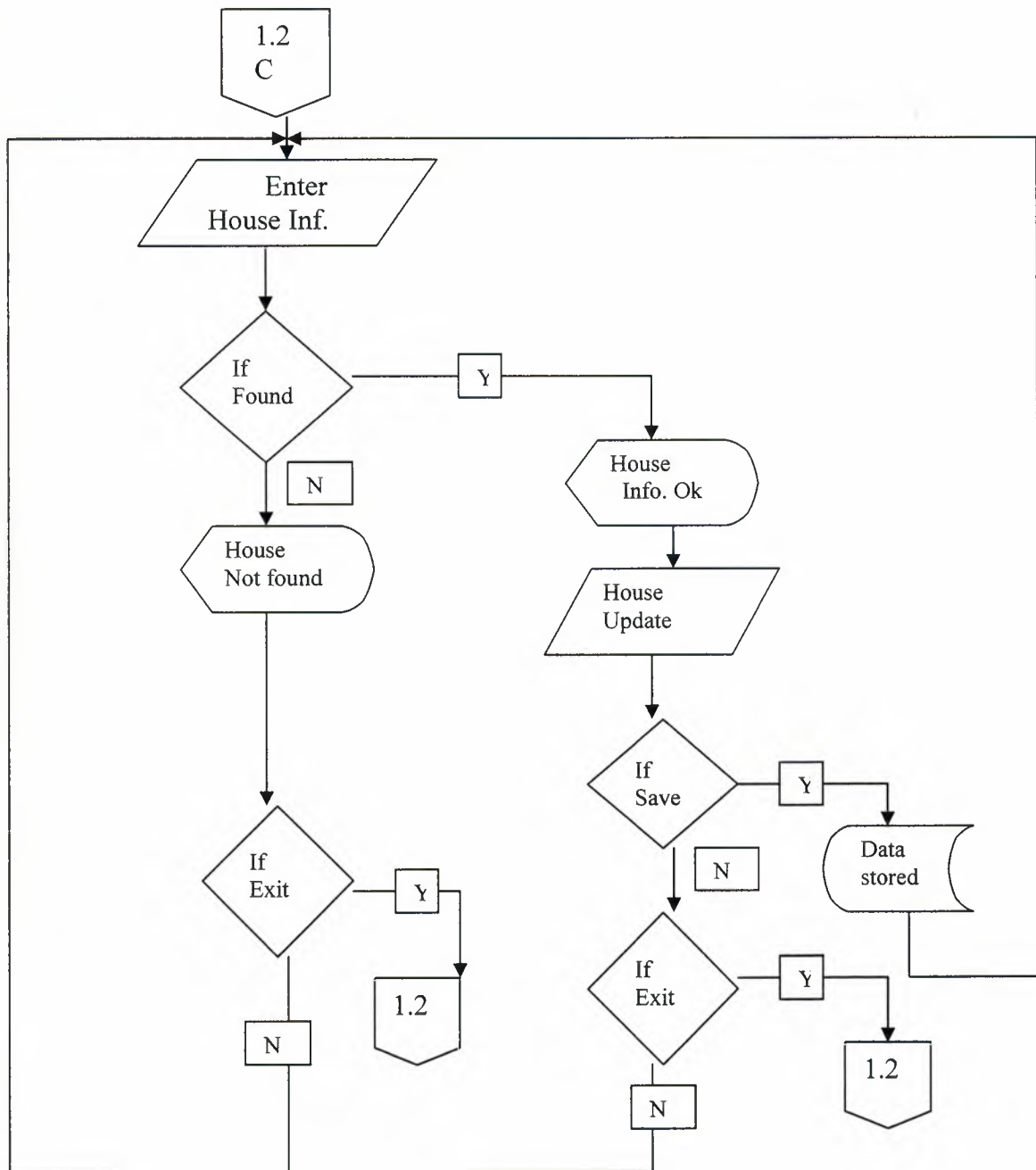




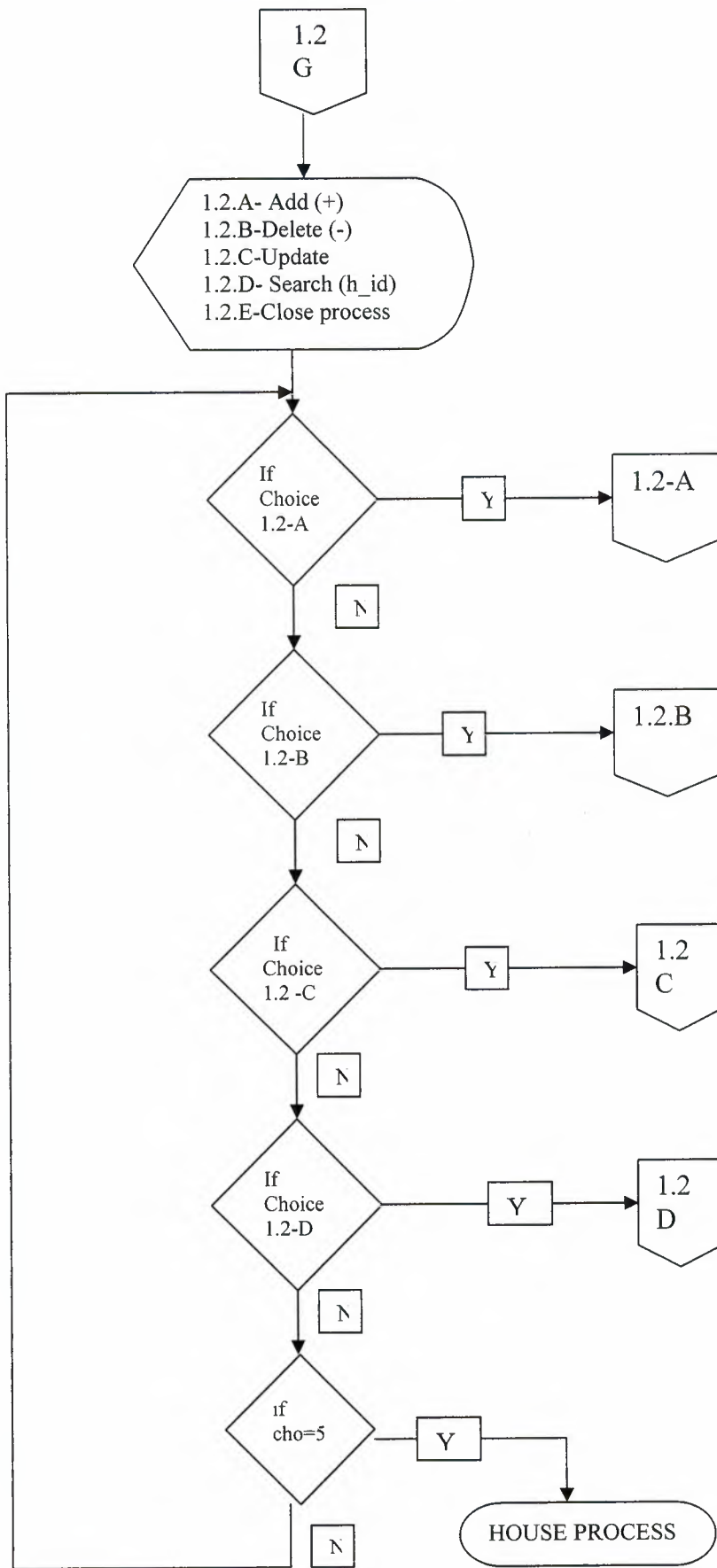
# HOUSE SEARCH (H\_ID)



## HOUSE UPDATE

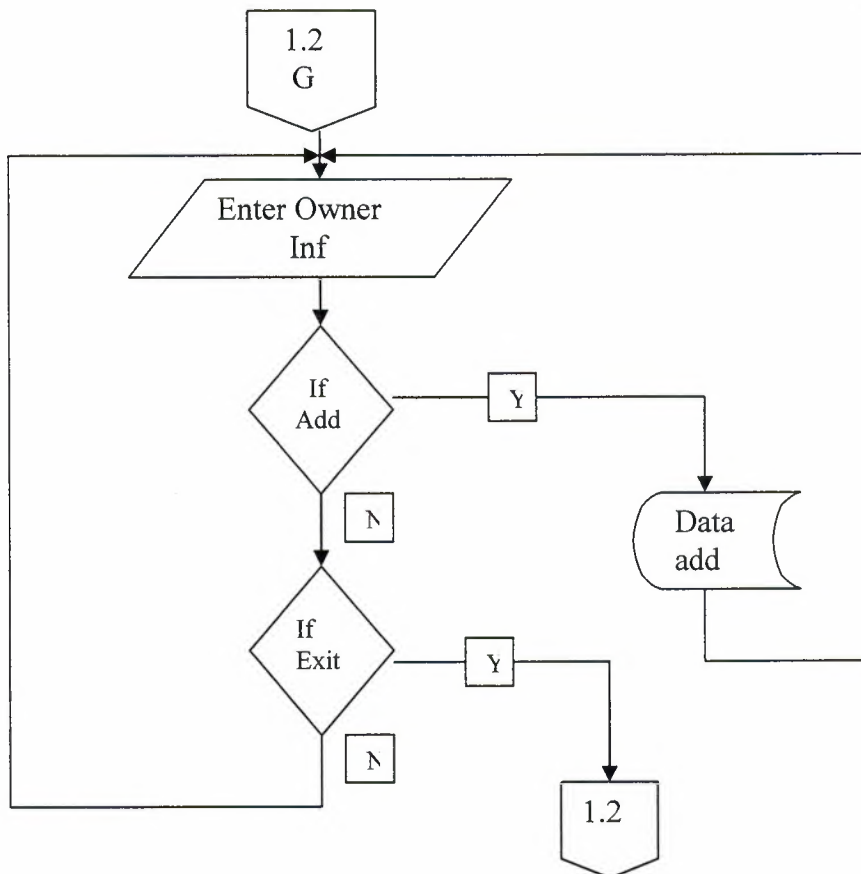


## OWNER PROCESS

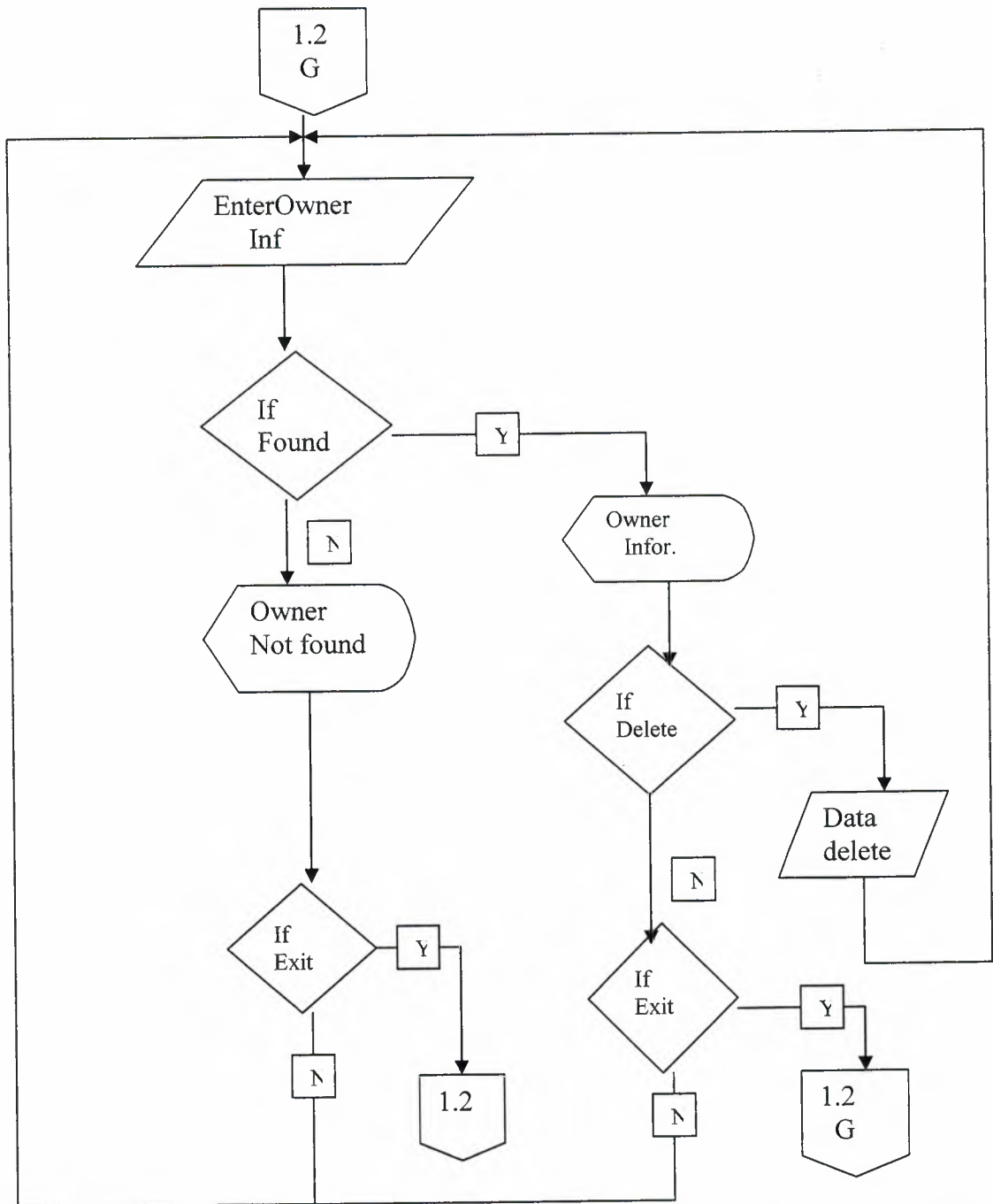




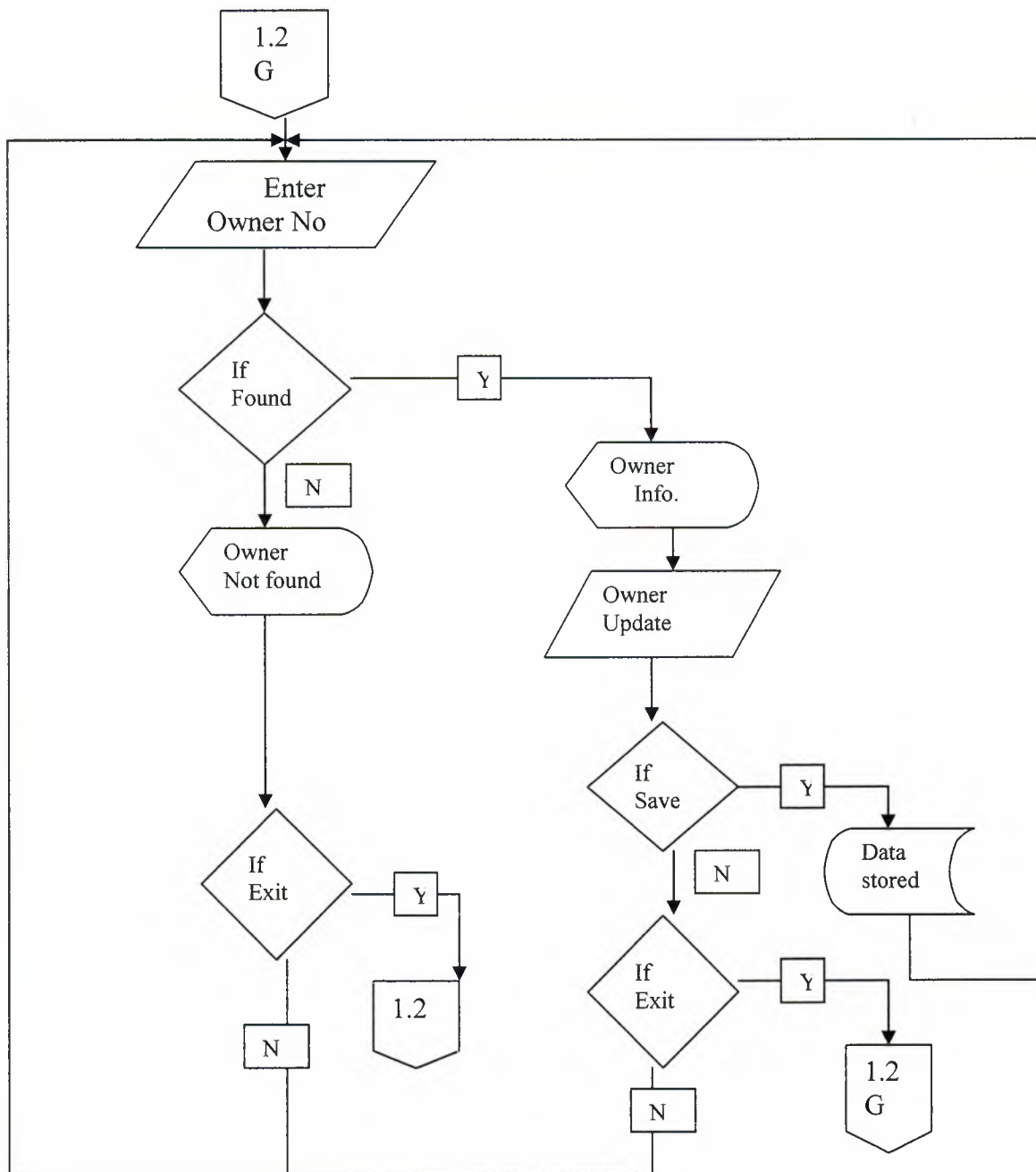
## OWNER ADD



## OWNER DELETE

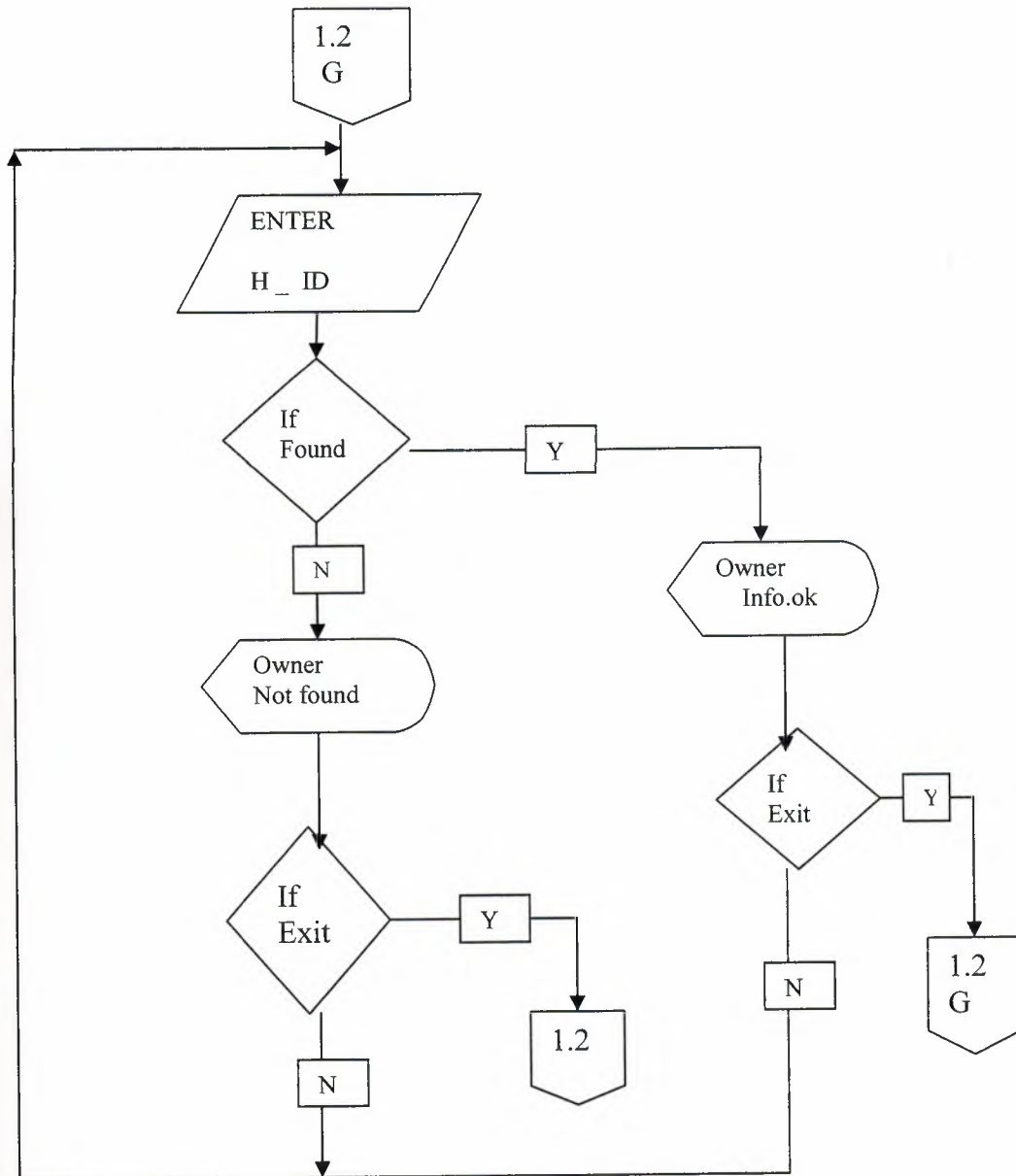


## OWNER SAVE

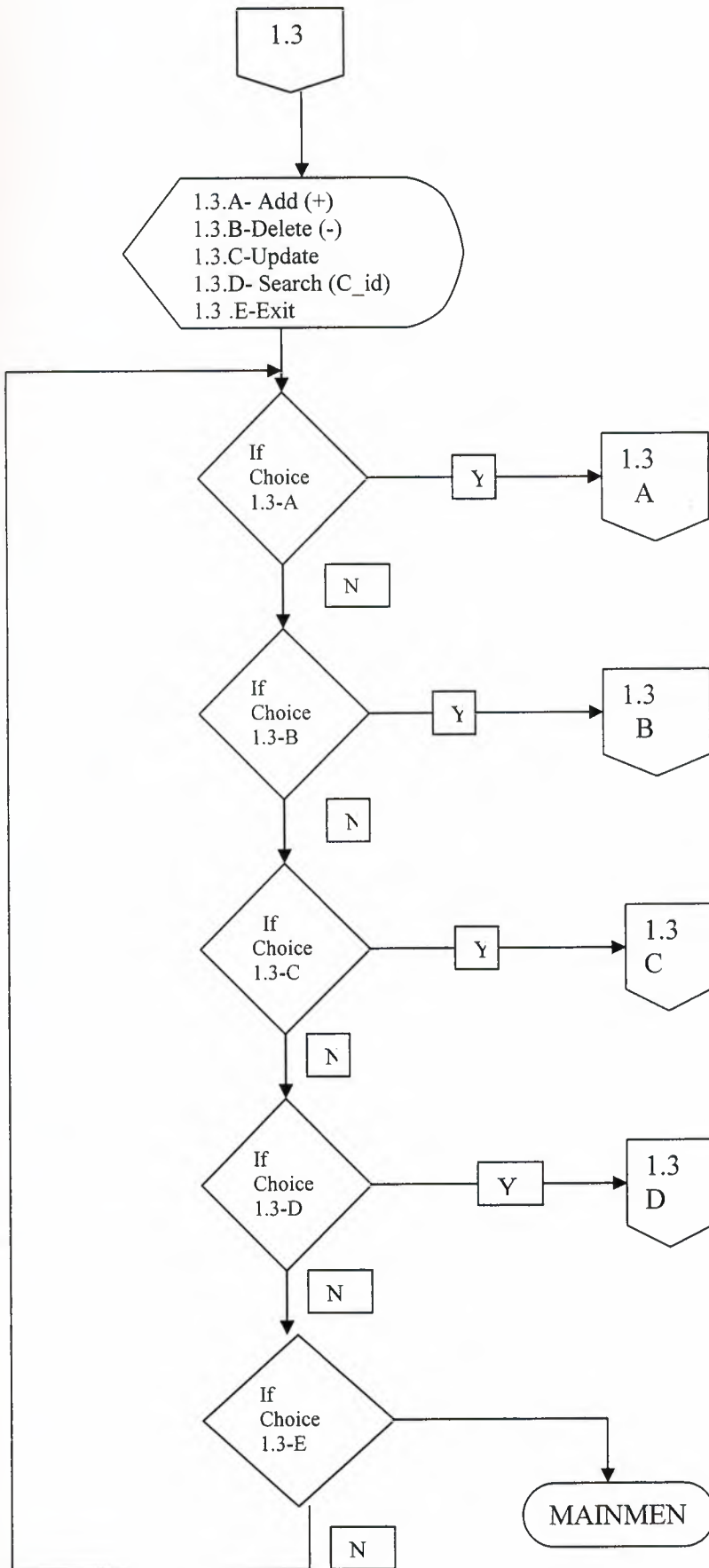




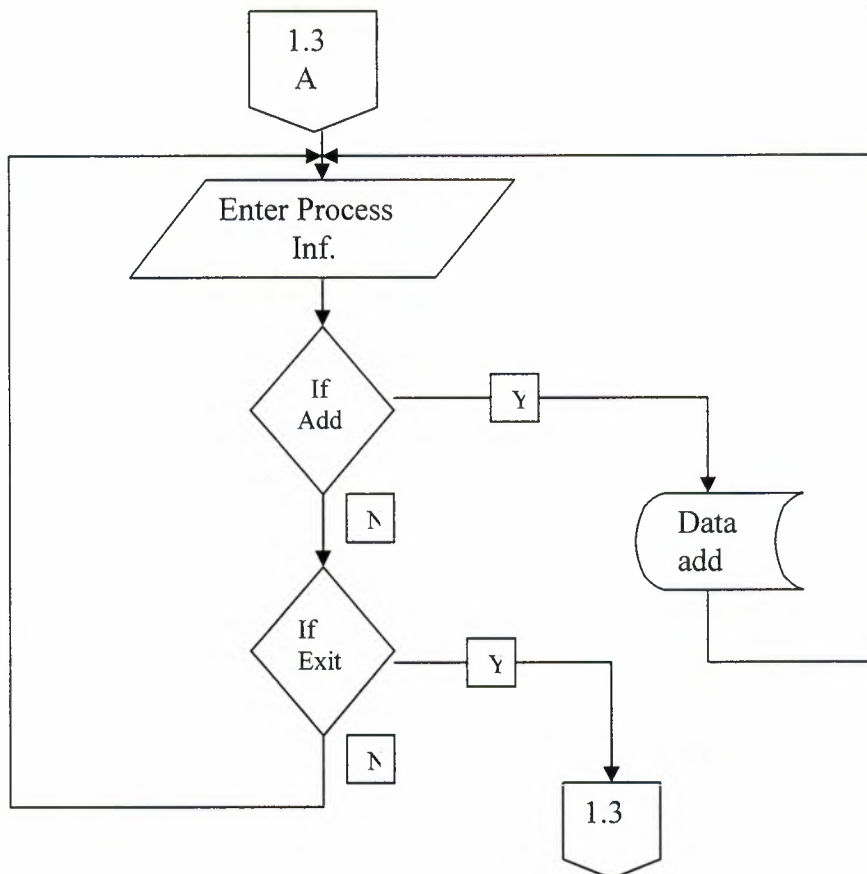
OWNER SEARCH (H\_ID)



## TRANSACTION

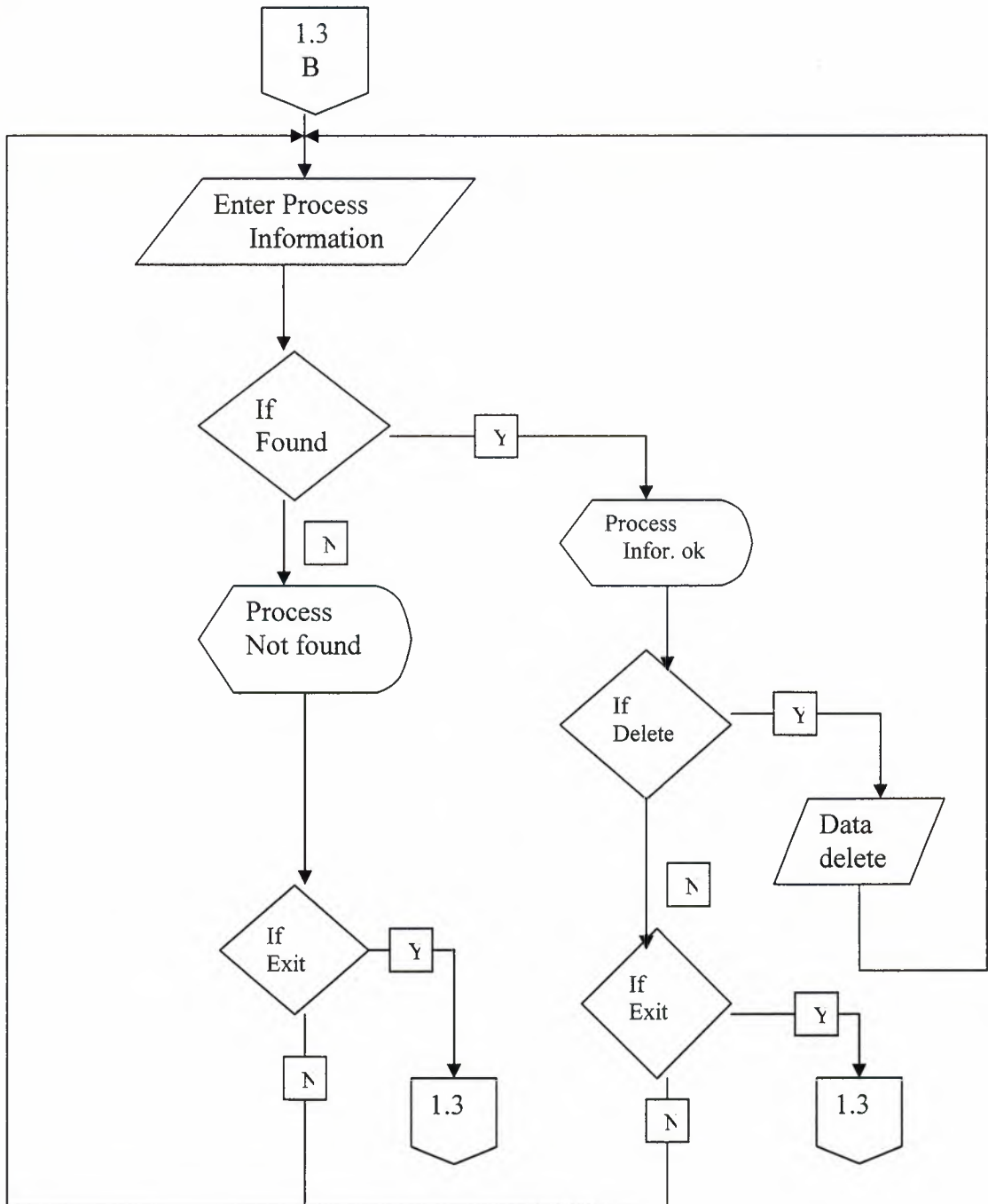


## TRANSACTION ADD

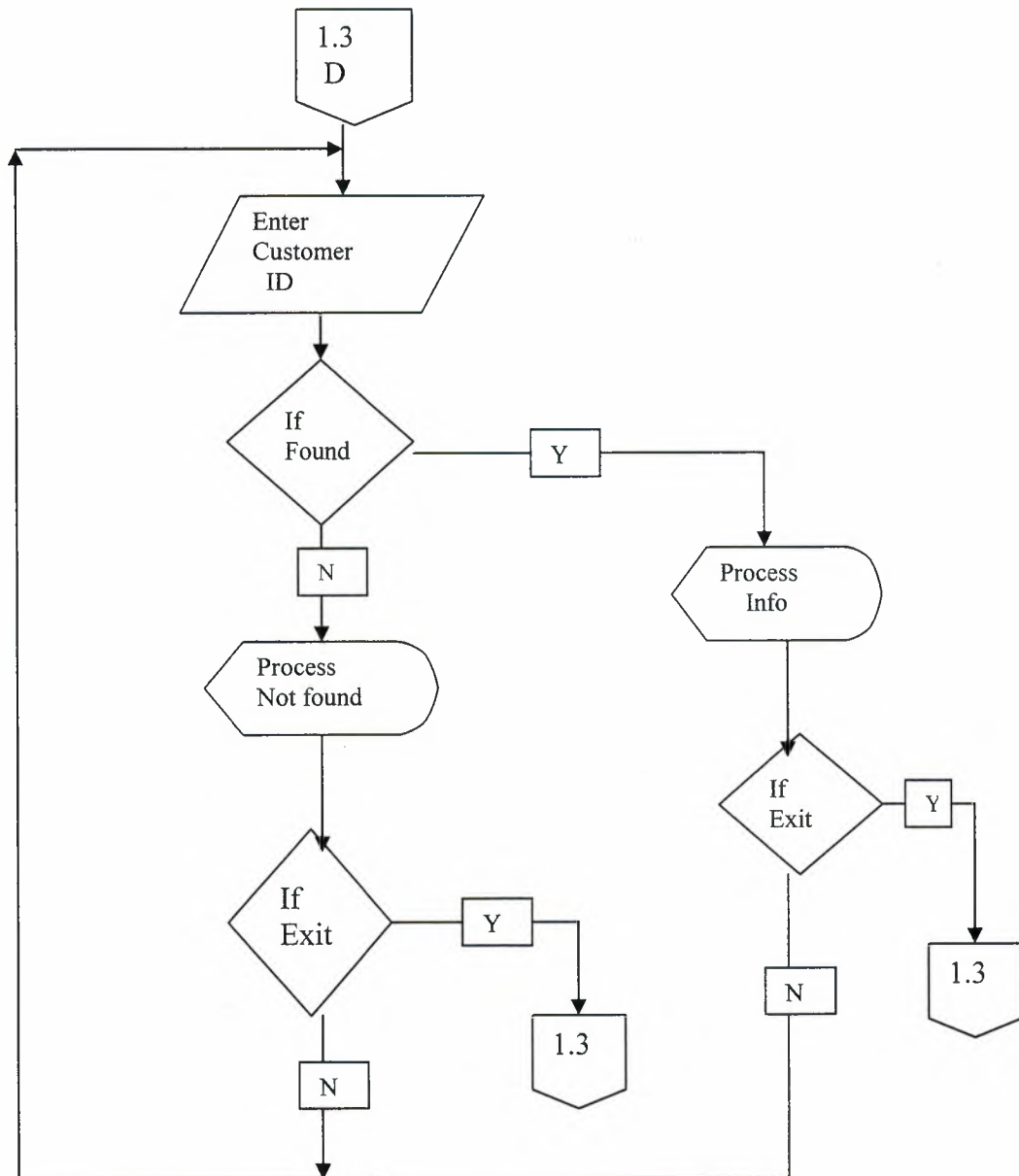




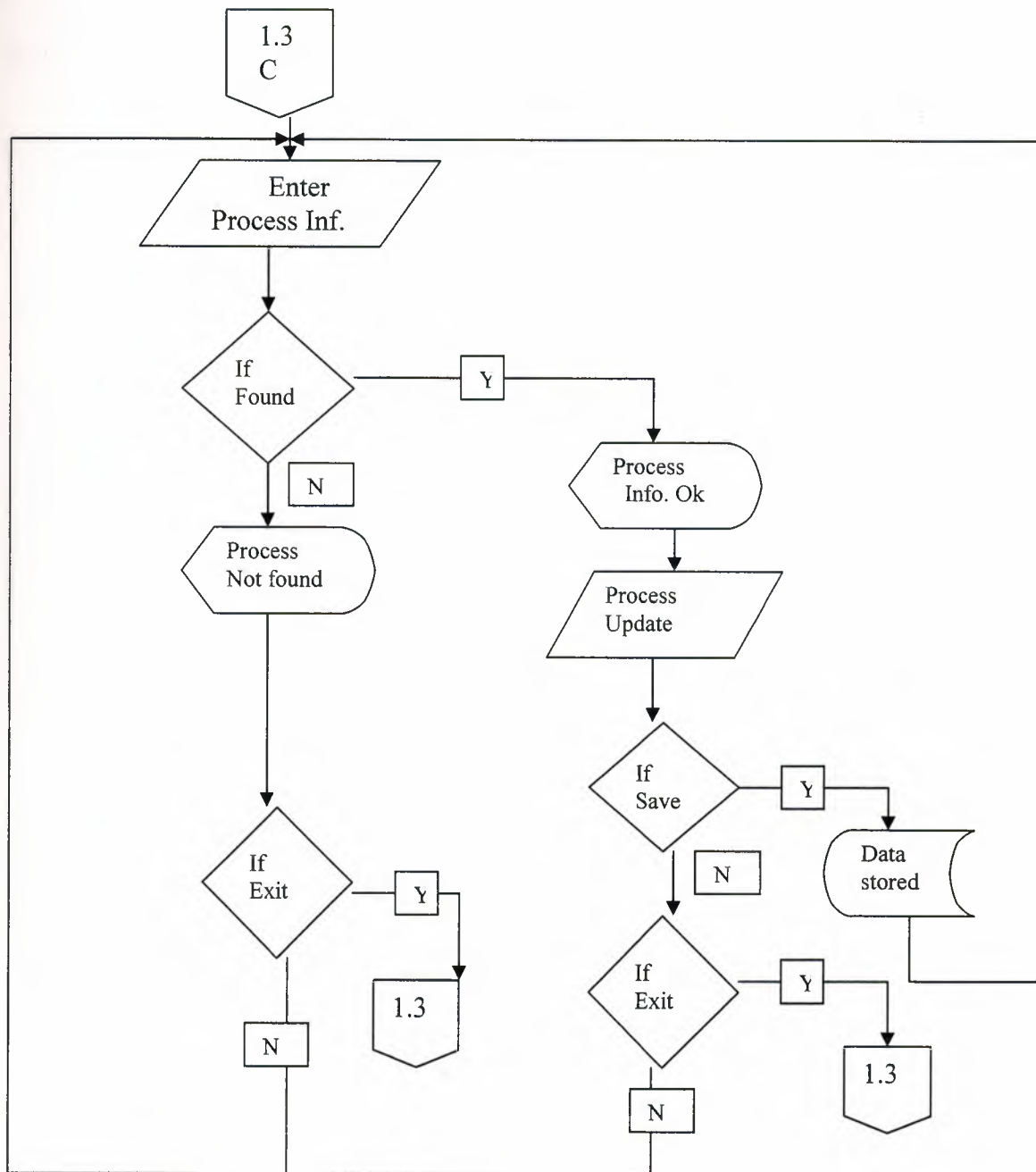
## TRANSACTION DELETE



# TRANSACTION SEARCH (C\_ID)

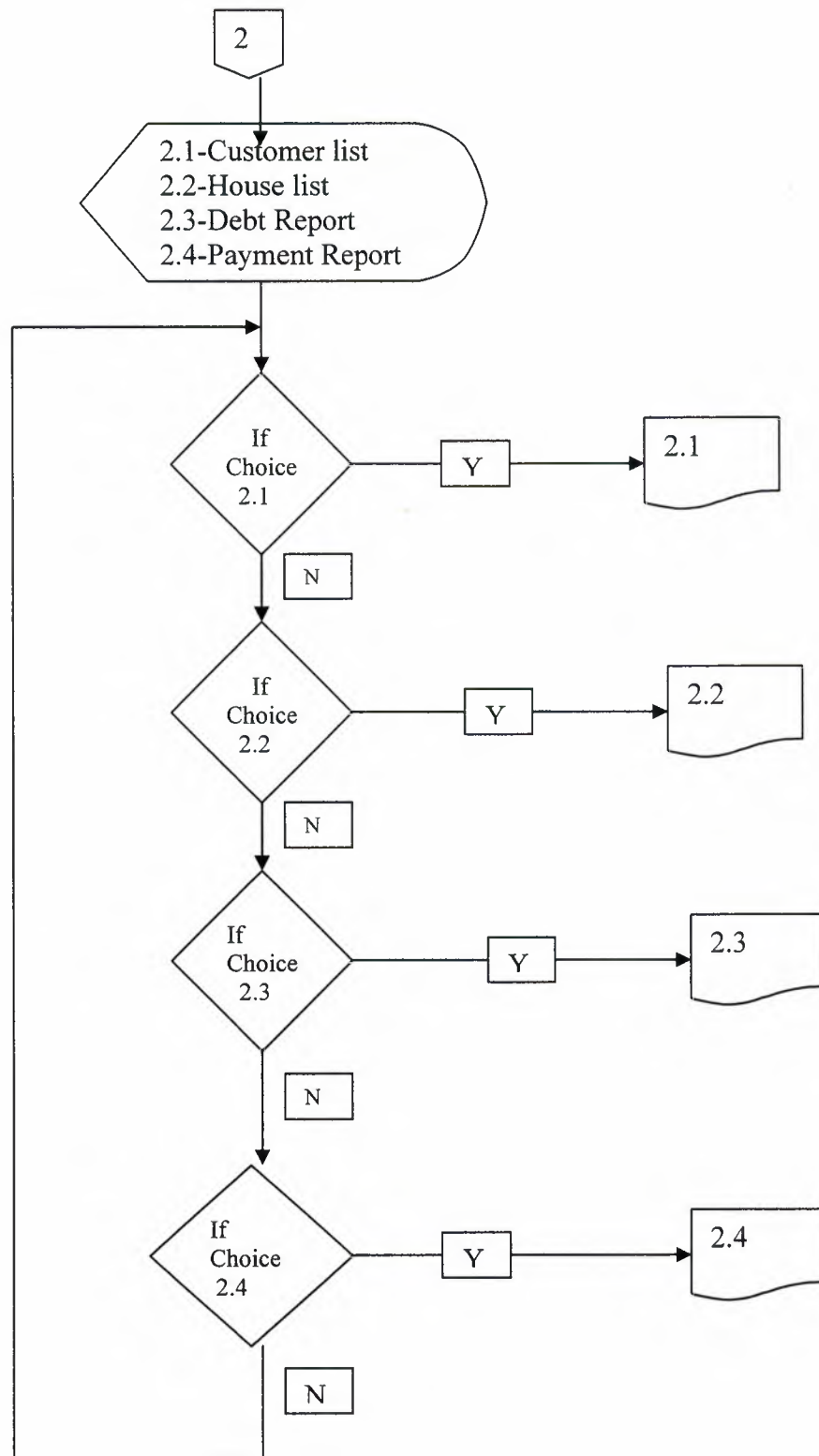


## TRANSACTION UPDATE





## REPORT



## REFERENCES

### Resources:

İhsan KARAGÜLLE, Borland DELPHI 7  
2. Edition, Türkmen Publisher House, İstanbul, 2003

Yaşar DAŞDEMİR, “ VERİTABANLARI & SQL”  
1. Edition, Türkmen Publishing House, İstanbul, 2002

### Websites:

<http://www.programlama.com/sys/c2html/view.php3?DocID=3153>  
<http://www.programlama.com/sys/c2html/view.php3?DocID=3059>  
<http://www.freevbcode.com/ShowCode.asp?ID=3717>

## SCREEN OUTPUTS



**Figure 1...:** is the password screen which must be entered from user for run this program. If the user entered wrong password three times the programs terminate.





**Figure 2...**is the main menu

**CUSTOMER**

TABLES REPORT ABOUT EXIT

Customer ID: 5403

Customer Name: ALI

Customer Surname: CAN

Customer Address: NEU

Customer Phone no: 536-522 67 33

Search

Search

Navigation buttons: [Back] [Forward] [Home] [Exit] [Refresh] [Print] [Undo] [Redo]

c_id	c_name	c_surname	c_address	c_tel
5403	ALI	CAN	NEU	536-522 67 33
6504	VELI	CAN	NEU	536-555 55 66
345	ahmet	a	erijtje	234-4567893

**Figure 3...:**is the customer menu screen that we use to enter or change customer information searches customer id and customer name.



TABLES

REPORT

ABOUT

CALCULATOR

EXIT

HOUSE

STREET

AREA

CITY

POSTALCODE

HOME TYPE

ROOM SIZE

RENT OR SALE

PRICE

1

fsw

sdf

kgk

kg

8

12324

HOUSE\_ID

SEARCH

ADD PICTURE

DELETE PICTURE

H_id	street	area	city	pcode	type	room	Rent&sale
1	fsw	sdf	kgk	kg	villa	8	villa
3	wqef	jfng	jng	jkdg		0	Hayır
2	lftg	tgfg	gfdg	gdfgd	gfd	545	Hayır
4	ataturk	19mayıs	lefkosa	10	FLAT	4	RENT

**Figure 4....:**is the house menu screen that we use to enter or change house information selected house picture are added or deleted.



**\*\*TRANSACTION\*\***

TABLES REPORT CALCULATION ABOUT EXIT

T\_id: 10 CUSTOMER ID:  FIND

Customer id: 6504

House id: 6

Debt: 62

Payamount: 150

Pay date: 30.06.2005

Cash or due: DUE

Navigation: [Back] [Forward] [Home] [End] [Find] [Print] [Refresh]

T_id	c_id	H_id	debt	payamount	pay_date	cash&due
10	6504	6	62	150	30.06.2005	DUE

c_id	c_name	c_surname	c_address	c_tel
5403	ALI	CAN	NEU	536-55
6504	VELI	CAN	NEU	536-55

H_id	street	area	city	pcode	type	room	Rent&sale	pri
4	ataturk	19mayis	lefkosa	10	FLAT	4	RENT	
6	iureh	oiewj	welfr	ew	VILLAS	4	RENT	

**Figure 5...:**is the transaction menu screen that we use to enter or change transaction information

**ERCUSTOM**

TABLES REPORT ABOUT EXIT

Customer: 6504 Customer ID:  Search

C name: VELI

C surname: CAN

C address: NEU Customer Name:  search

Phone no: 536-555 55 66

Navigation: [Back] [Forward] [Home] [End] [Find] [Print] [Refresh]

c_id	c_name	c_surname	c_address	c_tel
6504	VELI	CAN	NEU	536-555 55 66

**Figure 6...:**is the output screen that all customer report list.



HOUSE REPORT PAGE

## HOUSE REPORT

H_id	street	area	city	pcode	type	room	Rent&sale	price	picture
1	fsw	sdf	kgk	kg	villa	8	villa	12324	(BLOB)
3	wqef	jfng	jng	ikdg		0	Hayır	0	(BLOB)
2	tftg	tgfg	gfdg	gdgd	gfd	545	Hayır	54	(BLOB)
4	ataturk	19mayıs	lefkosa	10	FLAT	4	RENT	150	(BLOB)
6	iureh	oiewj	wefr	ew	VILLA	4	RENT	212	(BLOB)

Figure 7...:is the output screen that all house report list.

DEBT REPORT PAGE

## DEBT REPORT

T_id	c_id	H_id	debt	payamount	pay_date	cash&due
10	6504	6	62	150	30.06.2005	DUE

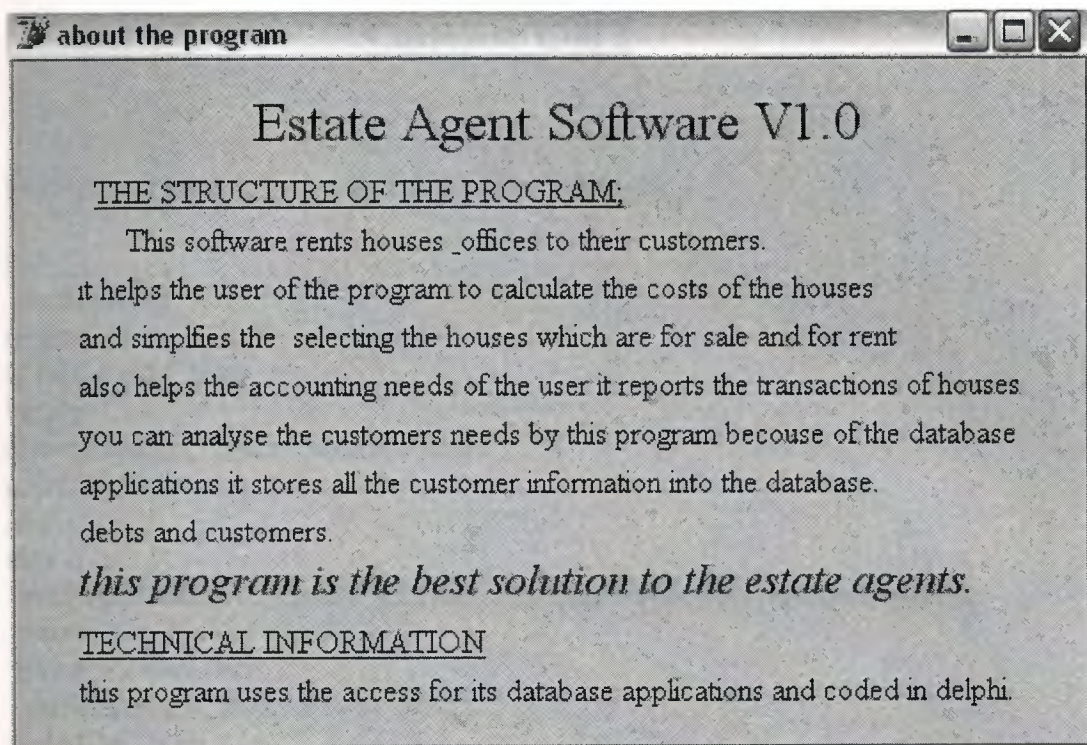
Figure 8...:is the output screen that all debt report list.

PAYMENT REPORT PAGE

## PAYMENT REPORT

T_id	c_id	H_id	debt	payamount	pay_date	cash&du
10	6504	6	62	150	30.06.2005	DUE

Figure 9...:is the output screen that all payment report list.



**Figure 10....:**is the output screen about program.



## SOURCE CODE

### Customer Unit 1

```
procedure TForm1.Button4Click(Sender: TObject);  
  
var  
    src:boolean;  
begin  
    if edit1.text="" then  
    begin  
        showmessage('Please Enter A Record');  
        edit1.setfocus  
    end  
    else  
        src:=ADOTable1.Locate('c_id',edit1.Text,[lopartialkey,locaseinsensitive]);  
        canvas.font.Color:=clred;  
        if not src=true then  
            showmessage('Record Not Found');  
            edit1.setfocus;  
        end;  
end;  
  
procedure TForm1.Timer1Timer(Sender: TObject);  
begin  
    Caption:=copy(caption,2,length(caption)-1)+caption[1];  
end;  
procedure TForm1.Button5Click(Sender: TObject);  
var src:boolean;  
begin  
    if edit2.text="" then  
    begin  
        showmessage('Please Enter A Record');  
        edit2.setfocus  
    end  
    else  
        src:=ADOTable1.Locate('c_name',edit2.Text,[lopartialkey,locaseinsensitive]);  
        canvas.font.Color:=clred;  
        if not src=true then  
            showmessage('Record Not Found');  
            edit2.setfocus;  
        end;  
end;  
  
procedure TForm1.EXIT1Click(Sender: TObject);  
begin
```

```
Application.CreateForm(TForm2, Form2);  
form2.Show;  
form1.Close;  
end;
```

```
procedure TForm1.houseadd1Click(Sender: TObject);  
begin  
Application.CreateForm(TForm2, Form2);  
form2.Show;  
form1.Close;  
end;
```

```
procedure TForm1.open1Click(Sender: TObject);  
begin  
Application.CreateForm(TForm3, Form3);  
form3.Show;  
form1.Close;  
end;
```

```
procedure TForm1.CALCULATOR1Click(Sender: TObject);  
begin  
winexec('C:\windows\system32\calc.exe',9);  
end;
```

```
procedure TForm1.DATE1Click(Sender: TObject);  
begin  
form7.show;  
end;
```

```
procedure TForm1.customerlist1Click(Sender: TObject);  
begin  
form8.show;  
  
end;
```

```
procedure TForm1.houselist1Click(Sender: TObject);  
begin  
form9.show;  
  
end;
```

```
procedure TForm1.DebtReport1Click(Sender: TObject);  
begin  
form10.show;  
end;
```

```
procedure TForm1.PaymentReport1Click(Sender: TObject);  
begin  
form11.show;  
end;
```

```
procedure TForm1.programmer1Click(Sender: TObject);  
begin  
form12.show;  
end;
```

```
procedure TForm1.RANSACTION2Click(Sender: TObject);  
begin  
Application.CreateForm(TForm3, Form3);  
form3.Show;  
form1.Close;  
end;
```

```
procedure TForm1.EXIT3Click(Sender: TObject);  
begin  
form1.close;  
end;
```

```
end
```



## **House Unit 2**

```
procedure TForm2.Button4Click(Sender: TObject);
```

```
var
  src:boolean;
  k:real;
begin
  if edit1.text="" then
    begin
      showmessage('Please Enter A Record');
      edit1.setfocus
    end
  else
    src:=ADOtable1.Locate('H_id',edit1.Text,[lopartialkey,locaseinsensitive]);
    canvas.font.Color:=clred;
    if not src=true then
      showmessage('Record Not Found');
      edit1.setfocus;
    end;
end;
```

```
procedure TForm2.Timer1Timer(Sender: TObject);
begin
  Caption:=copy(caption,2,length(caption)-1)+caption[1];
end;
```

```
procedure TForm2.exit1Click(Sender: TObject);
begin
  Application.CreateForm(TForm1, Form1);
  form1.Show;
end;
```

```
procedure TForm2.customeradd1Click(Sender: TObject);
begin
  Application.CreateForm(TForm1, Form1);
  form1.Show;
  form2.Close;
end;
```

```
procedure TForm2.open1Click(Sender: TObject);
begin
  Application.CreateForm(TForm3, Form3);
  form3.Show;
  form2.Close;
end;
```

```
procedure TForm2.CALCULAT1Click(Sender: TObject);
```

```

begin
  winexec('C:\windows\system32\calc.exe',9);
end;

procedure TForm2.DATE1Click(Sender: TObject);
begin
  form7.show;
end;

procedure TForm2.customerlist1Click(Sender: TObject);
begin
  form8.show;
end;

procedure TForm2.houselist1Click(Sender: TObject);
begin
  form9.show;
end;

procedure TForm2.DebtReport1Click(Sender: TObject);
begin
  form10.show;
end;

procedure TForm2.PaymentReport1Click(Sender: TObject);
begin
  form11.show;
end;

procedure TForm2.programmer1Click(Sender: TObject);
begin
  form12.show;
end;

procedure TForm2.Button1Click(Sender: TObject);
begin
  if openpicturedialog1.Execute then
  begin
    image1.Picture.LoadFromFile(openpicturedialog1.FileName);
    image1.Visible:=true;
    adotable1.Edit;
    adotable1.FieldValues['picture']:=openpicturedialog1.FileName;
    adotable1.Post;
    openpicturedialog1.FileName:="";
  end;
end;

procedure TForm2.Button2Click(Sender: TObject);
begin
  openpicturedialog1.FileName:="";

```

```

image1.Visible:=false;
adotable1.Edit;
adotable1.FieldValues['picture']:="";
adotable1.Post;
end;

```

```

procedure TForm2.FormShow(Sender: TObject);
begin
  openpicturedialog1.FileName:="";
  adotable1.First;
  if adotable1.Fieldvalues['PICTURE']<>null then
    begin
      image1.Visible:=true;
      openpicturedialog1.FileName :=adotable1.fieldvalues['picture'];
      // image1.Picture.LoadFromFile(openpicturedialog1.FileName);
    end;
end;

```

```

procedure TForm2.ADOTable1 AfterScroll(DataSet: TDataSet);
begin
  if adotable1.fieldvalues['picture']<>" then
    {begin
      openpicturedialog1.FileName:=adotable1.fieldvalues['picture'];
      image1.Picture.LoadFromFile(openpicturedialog1.FileName);
      // image1.Visible:=true;
    end
  else
    image1.Visible:=false;
  }
end;

```

```

procedure TForm2.RANSAction2Click(Sender: TObject);
begin
  Application.CreateForm(TForm3, Form3);
  form3.Show;
end;

```

```

procedure TForm2.EXIT3Click(Sender: TObject);
begin
  form2.Close ;
end;

```

```

end.

```

```

begin
  Application:
  Form1.Show;
  form3.Close;
end;

```



### **Transaction Unit 3**

```
procedure TForm3.Button5Click(Sender: TObject);
```

```
    var  
    src:boolean;  
begin  
    if edit2.text="" then  
    begin  
        showmessage('Please Enter A Record');  
        edit2.setfocus  
    end  
    else  
        src:=ADOTable1.Locate('T_id',edit2.Text,[lopartialkey,locaseinsensitive]);  
        src:=ADOTable2.Locate('h_id',edit2.Text,[lopartialkey,locaseinsensitive]);  
        src:=ADOTable3.Locate('C_id',edit2.Text,[lopartialkey,locaseinsensitive]);  
        canvas.font.Color:=clred;  
        if not src=true then  
            showmessage('Record Not Found');  
            edit2.setfocus;  
        end;  
end;
```

```
procedure TForm3.Timer1Timer(Sender: TObject);  
begin  
    Caption:=copy(caption,2,length(caption)-1)+caption[1];  
end;
```

```
procedure TForm3.CULCULATOR1Click(Sender: TObject);  
begin  
    winexec('C:\windows\system32\calc.exe',9);  
end;
```

```
procedure TForm3.DATE1Click(Sender: TObject);  
begin  
    FORM7.SHOW;  
end;
```

```
procedure TForm3.exit1Click(Sender: TObject);  
begin  
    Application.CreateForm(TForm1, Form1);  
    form1.Show;  
    form3.Close;  
end;
```

```
procedure TForm3.customeradd1Click(Sender: TObject);
begin
  Application.CreateForm(TForm1, Form1);
  form1.Show;
  form3.Close;
end;
```

```
procedure TForm3.houseadd1Click(Sender: TObject);
begin
  Application.CreateForm(TForm2, Form2);
  form2.Show;
  form3.Close;
end;
```

```
procedure TForm3.customerlist1Click(Sender: TObject);
begin
  form8.show;
end;
```

```
procedure TForm3.houselist1Click(Sender: TObject);
begin
  form9.show;
end;
```

```
procedure TForm3.DebtReport1Click(Sender: TObject);
begin
```

```
  form10.show;
  // ADOQuery1->Close();
  //ADOQuery1->SQL->Clear();
  //ADOQuery1->SQL->Add("SELECT EmpNo, LastName, FirstName, HireDate");
  //ADOQuery1->SQL->Add("FROM Employee");
  //ADOQuery1->Open();
end;
```

```
procedure TForm3.PaymentReport1Click(Sender: TObject);
begin
  form11.show;
end;
```

```
procedure TForm3.ABOUT1Click(Sender: TObject);
begin
  form12.show;
end;
```

```
procedure TForm3.ADOTable1AfterScroll(DataSet: TDataSet);
begin
  {adotable2.Open;
  if (strtointdef(dbedit3.text,0)>0) then
    begin
```

```
ADOTable2.Locate('h_id',dbedit3.Text,[lopartialkey,locaseinsensitive]);
```

```
if adotable2.fieldvalues['picture'] <> '' then
begin
openpicturedialog1.FileName:=adotable2.fieldvalues['picture'];
image1.Picture.LoadFromFile(openpicturedialog1.FileName);
image1.Visible:=true;
end
else
image1.Visible:=false;
end
else
image1.Visible:=false;
}
end;
```

```
procedure TForm3.FormShow(Sender: TObject);
begin
ADOTable2.Locate('h_id',dbedit3.Text,[lopartialkey,locaseinsensitive]);
if adotable2.Fieldvalues['PICTURE'] <> null then
begin
image1.Visible:=true;
openpicturedialog1.FileName :=adotable2.fieldvalues['picture'];
//image1.Picture.LoadFromFile(openpicturedialog1.FileName);
end;
end;
```

```
procedure TForm3.HOUSE2Click(Sender: TObject);
begin
Application.CreateForm(TForm2, Form2);
form2.Show;
form3.Close;
end;
```

```
procedure TForm3.CALCULATOR1Click(Sender: TObject);
begin
winexec('C:\windows\system32\calc.exe',9);
end;
```

```
procedure TForm3.EXIT3Click(Sender: TObject);
begin
form3.CLOSE;
end;
```

```
end
```



## **Mainmenu Unit 4**

```
procedure TForm4.Button1Click(Sender: TObject);  
begin  
  form5.show;  
end;
```

```
procedure TForm4.Button2Click(Sender: TObject);  
begin  
  form12.show;  
end;
```

```
procedure TForm4.Button3Click(Sender: TObject);  
begin  
  application.Terminate  
end;
```

```
procedure TForm4.EXIT1Click(Sender: TObject);  
begin  
  Application.CreateForm(TForm1, Form1);  
  form1.Show;  
end;
```

```
procedure TForm4.DATE1Click(Sender: TObject);  
begin  
  form7.show;  
end;
```

```
procedure TForm4.FormCreate(Sender: TObject);  
begin  
  panel1.Color:=clskyblue;  
  form4.Close;  
end;
```

```
procedure TForm4.customerlist1Click(Sender: TObject);  
begin  
  Application.CreateForm(TForm8, Form8);  
  form8.show;  
end;
```

```
procedure TForm4.houselist1Click(Sender: TObject);  
begin  
  Application.CreateForm(TForm9, Form9);  
  form9.show;  
end;
```

```
procedure TForm4.DebtReport1Click(Sender: TObject);
```

```

begin
  Application.CreateForm(TForm4, Form4);
  form10.show;
end;

procedure TForm4.P1Click(Sender: TObject);
begin
  Application.CreateForm(TForm11, Form11);
  form11.show;
end;

procedure TForm4.PROGRAMMER1Click(Sender: TObject);
begin
  form12.show;
end;

procedure TForm4.FormClose(Sender: TObject; var Action: TCloseAction);
begin
  // application.Terminate;
end;

procedure TForm4.HOUSE2Click(Sender: TObject);
begin
  Application.CreateForm(TForm2, Form2);
  form2.Show;
end;

procedure TForm4.RANSACTON1Click(Sender: TObject);
begin
  Application.CreateForm(TForm3, Form3);
  form3.Show;
end;

procedure TForm4.EXIT3Click(Sender: TObject);
begin
  form4.close;
end;

procedure TForm4.Timer1Timer(Sender: TObject);
begin
  with panel1 do
    Caption:=COPY(Caption,2,Length(Caption)-1)+Caption[1];

end;
end.

```

## **Sıfre Unit 6**

```
procedure TForm6.FormCreate(Sender: TObject);
begin
  tur:=3;
end;

procedure TForm6.Button1Click(Sender: TObject);
begin
  if edit1.Text ='emlak' then
  begin
    button1.setfocus;
    form4.Show;
    form6.Hide;
  end
  else
  begin
    showmessage('Wrong Password !'#13'Please Enter Again!');
    tur:=tur-1;
    edit1.Text:="";
    edit1.SetFocus;
    if tur=0 then
    begin
      edit1.Text:="";
      showmessage('The program Will Be Terminated');
      application.terminate;
    end;
  end;
end;

procedure TForm6.Button2Click(Sender: TObject);
begin
  application.Terminate
end;

end.
```



## **Debt Report Unit 10**

```
procedure TForm10.FormClose(Sender: TObject; var Action: TCloseAction);
begin
Application.CreateForm(TForm10, Form10);
  form4.show;
end;
```

```
procedure TForm10.FormShow(Sender: TObject);
begin
```

```
with form3.ADOQuery1 do begin
  with SQL do begin
    Clear;
    Add('SELECT c_id, H_id, dept, pay_date');
    Add('FROM Transection');
  end;
  Open;
end;
end;

end.
```

## **Payment Report Unit 11**

```
procedure TForm11.FormClose(Sender: TObject; var Action: TCloseAction);
begin
  Application.CreateForm(TForm11, Form11);
  form4.show;
end;
```

```
procedure TForm11.FormShow(Sender: TObject);
begin
```

```
  with form3.ADOQuery1 do begin
    with SQL do begin
      Clear;
      Add('SELECT c_id, H_id, payamount, pay_date');
      Add('FROM Transection');
    end;
    Open;
  end;
end;
end.
end.
```