Qwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmrtyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklo

pasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmrtyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmrtyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmrtyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmrtyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmrtyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmrtyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnm

|  |
| --- |
| PIYUSH Kumar  Roll no. - 24  Class - XII ‘A’  ***C++ projecT*** |

* HEADER FILES
* OBJECTIVE
* CODING
* OUTPUTS
* fstream.h -> for file handling , input and output both
* process.h -> for exit() function
* conio.h -> for clrscr() and getch() functions
* string.h -> for string handling
* ctype.h -> for character handling
* stdio.h -> for rename() and remove() function
* iostream.h -> for input and output operations

The objective of the project is to create a program for “SMARTPHONE OUTLET” in which I have created various options for showroom assistance, just like I added options to access customer’s information or smartphone information and to perform following operations on the saved data:

1. ADD DETAILS
2. DISPLAY DETAILS
3. MODIFY DETAILS
4. SEARCH DETAILS
5. DELETE DETAILS

// &&&&&&& COMPUTER SCIENCE PROJECT WORK &&&&&&&&&& //

// SOFTWARE FOR THE USE IN SMARTPHONE OUTLET //

// //

// \*\*\*\*\*\*\*INTRODUCTION\*\*\*\*\*\*\* //

// NAME:- PIYUSH KUMAR //

// CLASS:- XII A //

// ROLL NO:- '24' //

// SCHOOL: - THE LAWRENCE PUBLIC SCHOOL //

// \*\*\*\*\*\*\*-----------\*\*\*\*\*\*\*\*\* //

// Password (if required) :- MyShowroom //

\*/ //

/\* HEADER FILES \*/

#include<iostream.h>

#include<fstream.h>

#include<string.h>

#include<conio.h>

#include<ctype.h>

#include<stdio.h>

#include<stdlib.h>

/\* STRUCTURE DEFINITIONS \*/

/\* STRUCTURE FOR CUSTOMER DETAILS \*/

struct customer

{ int c\_no;

char name[30];

char AADHAR\_No[13];

char ContactNo[11];

int prodimei;

int d; //date of purchase

int m; //month number

int y; //year

int VCNM; //vide cash memo number

};

/\* CLASS CONTAINING FUNC. FOR PHONE \*/

class SmartPhone

{ char nameph[30];

char Model[10];

int IMEI;

int Warranty;

public :

float price;

void getdata()

{

cout<<"\nEnter the name of phone - ";

gets(nameph);

cout<<"Enter the model number - ";

gets(Model);

cout<<"Enter IMEI number of phone - ";

cin>>IMEI;

cin.ignore(1000,'\n');

cout<<"Enter warranty period(in yrs) - ";

cin>>Warranty;

cin.ignore(1000,'\n');

cout<<"Enter price of phone(in Rs) - ";

cin>>price;

cin.ignore(1000,'\n');

}

void dispdata()

{

cout<<"\nName of phone - "<<nameph;

cout<<"\nModel - "<<Model;

cout<<"\nIMEI number - "<<IMEI;

cout<<"\nWarranty - "<<Warranty;

cout<<"\nPrice - Rs."<<price;

}

int retimei()

{

return IMEI;

}

char \*retmodel()

{

return Model;

}

};

/\* FUNCTIONS FOR SMARTPHONE \*/

void addrec();

void displayrec();

void modifyrec(int r); //r,i,z

void searchrec(int i); //are entered by

void delrec(int z); //user(IMEI no.)

/\* FUNCTION TO CHECK THE VALIDITY OF DATE \*/

void valid\_date(int m,int d,int y)

{

if(m<=12&&m>0)

{ if(m%2!=0)

{ if(d>=1&&d<=31)

cout<<"\nValid date\n";

else

cout<<"\nInvalid date\n";

}

else if(m==2)

{ if(y%4==0)

{ if (d>=1&&d<=29)

cout<<"\nValid date\n";

else

cout<<"\nInvalid date\n";

}

else if(y%4!=0)

{ if (d>=1&&d>=28)

cout<<"\nValid date\n";

else

cout<<"\nInvalid date\n";

}

}

else if(m%2==0)

{ if(d>=1&&d<=30)

cout<<"\nValid date\n";

else

cout<<"\nInvaild date\n";

}

}

else cout<<"\nInvalid Month\n";

}

class Custmr /\* CLASS CONTAINING FUNC. FOR CUSTOMER \*/

{ customer c;

public :

void gtdat()

{ cout<<"Enter Customer number - ";

cin>>c.c\_no;

cin.ignore(1000,'\n');

cout<<"Enter Name of the customer - ";

cin.getline(c.name,30);

cout<<"Enter the AADHAR number - ";

cin.getline(c.AADHAR\_No,13);

cin.ignore(1000,'\n');

cout<<"Enter contact number - ";

cin.getline(c.ContactNo,11);

cin.ignore(1000,'\n');

cout<<"Enter IMEI number of product purchased - ";

cin>>c.prodimei;

cin.ignore(1000,'\n');

cout<<"Enter date of purchase(in nos.and must be valid) - ";

cin>>c.d>>c.m>>c.y;

cout<<"Checking whether date is valid.........";

valid\_date(c.m,c.d,c.y);

cout<<"Enter the cash memo number - ";

cin>>c.VCNM;

cin.ignore(1000,'\n');

}

void putdat()

{ cout<<"\nCustomer number - "<<c.c\_no;

cout<<"\nName of the customer - "<<c.name;

cout<<"\nAADHAR number - "<<c.AADHAR\_No;

cout<<"\nContact number - "<<c.ContactNo;

cout<<"\nIMEI Number of Product Purchased - "<<c.prodimei;

cout<<"\nDate of Purchase - "<<c.d<<"."<<c.m<<"."<<c.y;

cout<<"\nCash memo number - "<<c.VCNM;

}

int retcno()

{ return c.c\_no;}

};

/\* FUNCTIONS FOR CUSTOMERS' RECORD \*/

void addcust();

void dispcust();

void modifycust(int j);

void searchcust(int k);

void delcust(int l);

/\* MAIN FUNCTION \*/

void main()

{clrscr();

int choice,a,b,r,i,z,g,h,t;

char ch[15];

cout<<"\n";

cout<<"\t\* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \*\n";

cout<<"\t\* \* \* \* \* \* \* \* \* \* \* \*\n";

cout<<"\t\* \* \* \* \* \* \* \* \* \* \* \* \* \* \*\n";

cout<<"\t\* \* \* \* \* \* \* \* \* \* \* \*\n";

cout<<"\t\* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \*\n";

cout<<"\n\n\t\tSoftware developed by - PIYUSH KUMAR \n \n";

do

{

cout<<"\t\t\t\_\_\_\_\_\_\_\_\_\_\_\_MAIN MENU\_\_\_\_\_\_\_\_\_\_\_\_\n";

cout<<"1.To access CUSTOMER information";

cout<<"\n2.To access SMARTPHONE information";

cout<<"\n3.To EXIT\n";

cin>>choice;

if(choice==1)

{cout<<"You have entered 1...";

cout<<"\nEnter showroom password to access customer details = ";

gets(ch);

if(strcmp(ch,"MyShowroom")==0)

{do

{

cout<<"\n\t\t\t\_\_\_\_\_\_CUSTOMER\_MENU\_\_\_\_\_\_\_\n";

cout<<"1.TO ADD RECORD";

cout<<"\n2.TO DISPLAY CUSTOMER RECORD";

cout<<"\n3.TO MODIFY CUSTOMER RECORD";

cout<<"\n4.TO SEARCH CUSTOMER RECORD";

cout<<"\n5.TO DELETE CUSTOMER RECORD";

cout<<"\n6.TO EXIT\n";

cin>>a;

switch(a)

{case 1:cout<<"You have entered 1...\n";

addcust();

break;

case 2:cout<<"You have entered 2...\n";

dispcust();

break;

case 3:cout<<"You have enterded 3...";

cout<<"\nEnter the customer number - ";

cin>>g;

modifycust(g);

break;

case 4:cout<<"You have entered 4...";

cout<<"\nEnter customer no. to be searched - ";

cin>>h;

searchcust(h);

break;

case 5:cout<<"You have entered 5...";

cout<<"\nEnter customer no. to be deleted - ";

cin>>t;

delcust(t);

break;

}

}while(a<=5);

}

else

cout<<"\n\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*ACCESS DENIED\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n";

}

else if(choice==2)

{cout<<"You have entered 2...";

do

{

cout<<"\n\t\t\t\_\_\_\_\_\_\_\_\_\_PHONE MENU\_\_\_\_\_\_\_\_\n";

cout<<"1.TO ADD PHONE RECORD";

cout<<"\n2.TO DISPLAY PHONE RECORD";

cout<<"\n3.TO MODIFY PHONE RECORD";

cout<<"\n4.TO SEARCH PHONE RECORD";

cout<<"\n5.TO DELETE PHONE RECORD";

cout<<"\n6.TO EXIT\n";

cin>>b;

switch(b)

{case 1:cout<<"You have entered 1...\n";

addrec();

break;

case 2:cout<<"You have entered 2...\n";

displayrec();

break;

case 3:cout<<"You have entered 3....";

cout<<"\nEnter IMEI number - ";

cin>>r;

modifyrec(r);

break;

case 4:cout<<"You have entered 4...";

cout<<"\nEnter IMEI number - ";

cin>>i;

searchrec(i);

break;

case 5:cout<<"You have entered 5...";

cout<<"\nEnter IMEI number - ";

cin>>z;

delrec(z);

break;

case 6:break;

}

}while(b<=5);

}

else if(choice==3)

exit(0);

}while(choice<3);

getch();

}

/\* \*\*\*\*\*\*\*\*\*\*\*\*\*\*FUNCTION DEFINITIONS\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \*/

/\* FUNCTION DEFINITION FOR SMARTPHONES \*/

void addrec() //To add phone records

{ SmartPhone s;

ofstream fout("Outlet.txt");

if(!fout)

cout<<"\nFile not exist!!!";

else

{ char ch;

do

{ s.getdata();

fout.write((char\*)&s,sizeof(s));

cout<<"\nWant to enter more records ???(Y/N)";

cin>>ch;

}while(ch=='Y'||ch=='y');

}

fout.close();

}

void displayrec() //To display phone records

{ SmartPhone s1;

ifstream fin;

fin.open("Outlet.txt");

if(!fin)

cout<<"\nFile not exist!!!";

else

{ while(!fin.eof())

{ fin.read((char\*)&s1,sizeof(s1));

s1.dispdata();

}

}

fin.close();

}

void searchrec(int r) //To search a phone's record

{ SmartPhone S;

int found=0;

ifstream fin;

fin.open("Outlet.txt",ios::binary);

if(!fin)

cout<<"\nFile not EXIST!!!";

else

{ while(!fin.eof())

{ fin.read((char\*)&S,sizeof(S));

if(S.retimei()==r)

{ cout<<"\nRecord FOUND:)...:";

S.dispdata();

found=1;

}

}

if(found==0)

cout<<"\nRecord not FOUND!!!";

}

fin.close();

}

void modifyrec(int z) //To modify a phone's record

{ SmartPhone s;

ifstream fin("Outlet.txt",ios::binary);

if(!fin)

cout<<"\nFile not exist!!!";

else

{ ofstream fout("Temp.txt");

while(!fin.eof())

{ fin.read((char\*)&s,sizeof(s));

if(s.retimei()==z)

{ s.getdata();

fout.write((char\*)&s,sizeof(s));

}

else

fout.write((char\*)&s,sizeof(s));

}

fout.close();

}

fin.close();

remove("Outlet.txt");

rename("Temp.txt","Outlet.txt");

}

void delrec(int a) //To delete a phone's record

{ SmartPhone s1;

ifstream fin("Outlet.txt");

if(!fin)

cout<<"\nFile not exist!!!";

else

{ ofstream fout("Temp.txt");

while(!fin.eof())

{ fin.read((char\*)&s1,sizeof(s1));

if(s1.retimei()!=a)

fout.write((char\*)&s1,sizeof(s1));

}

fout.close();

}

fin.close();

remove("Outlet.txt");

rename("Temp.txt","Outlet.txt");

}

/\* FUNCTION DEFINITION FOR CUSTOMER \*/

void addcust() //To add customer's record

{ Custmr c1;

ofstream fout("CUSTOMER.txt",ios::binary);

if(!fout)

cout<<"\nfile not exist!!!";

else

{ char ch;

do

{ c1.gtdat();

fout.write((char\*)&c1,sizeof(c1));

cout<<"\nWant to enter more records ???(Y/N)";

cin>>ch;

}while(ch=='Y'||ch=='y');

}

fout.close();

}

void dispcust() //To display customer's records

{ Custmr c2;

ifstream fin;

fin.open("Customer.txt");

if(!fin)

cout<<"\nFile not exist!!!";

else

{

while(fin.read((char\*) &c2, sizeof(c2)) )

c2.putdat();

}

fin.close();

}

void searchcust(int r) //To search a customer's record

{ Custmr c3;

int found=0;

ifstream fin;

fin.open("Customer.txt",ios::binary);

if(!fin)

cout<<"\nFile not EXIST!!!";

else

{ while(!fin.eof())

{ fin.read((char\*)&c3,sizeof(c3));

if(c3.retcno()==r)

{ cout<<"\nRecord FOUND:)...:";

c3.putdat();

found=1;

}

}

if(found==0)

cout<<"\nRecord not FOUND!!!";

}

fin.close();

}

void modifycust(int z) //To modify a customer's record

{ Custmr c4;

ifstream fin("Customer.txt",ios::binary);

if(!fin)

cout<<"\nFile not exist!!!";

else

{ ofstream fout("Temp.txt");

while(!fin.eof())

{ fin.read((char\*)&c4,sizeof(c4));

if(c4.retcno()==z)

{ c4.gtdat();

fout.write((char\*)&c4,sizeof(c4));

}

else

fout.write((char\*)&c4,sizeof(c4));

}

fout.close();

}

fin.close();

remove("Customer.txt");

rename("Temp.txt","Customer.txt");

}

void delcust(int a) //To delete a customer's record

{ Custmr c5;

ifstream fin("Customer.txt");

if(!fin)

cout<<"\nFile not exist!!!";

else

{

ofstream fout("Temp.txt");

while(!fin.eof())

{ fin.read((char\*)&c5,sizeof(c5));

if(c5.retcno()!=a)

fout.write((char\*)&c5,sizeof(c5));

}

fout.close();

}

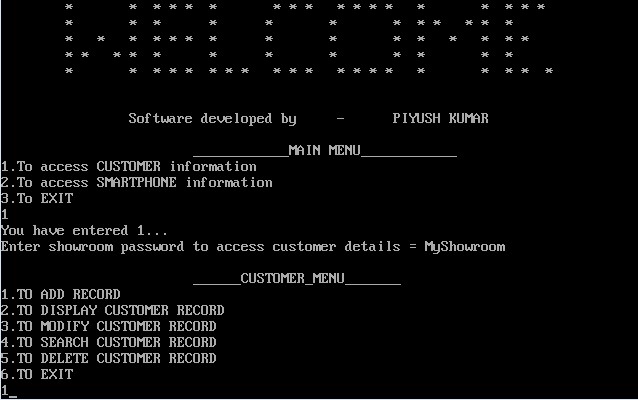
fin.close();

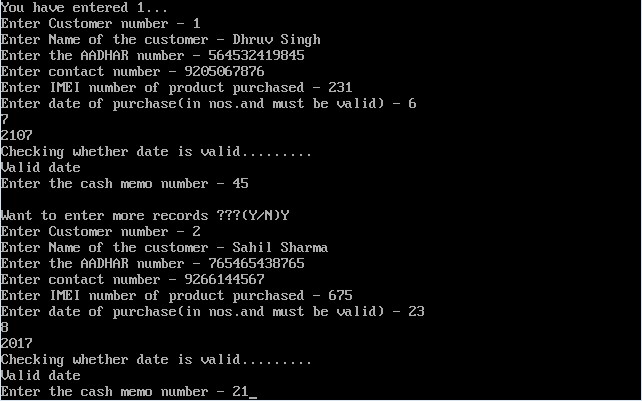
remove("Customer.txt");

rename("Temp.txt","Customer.txt");

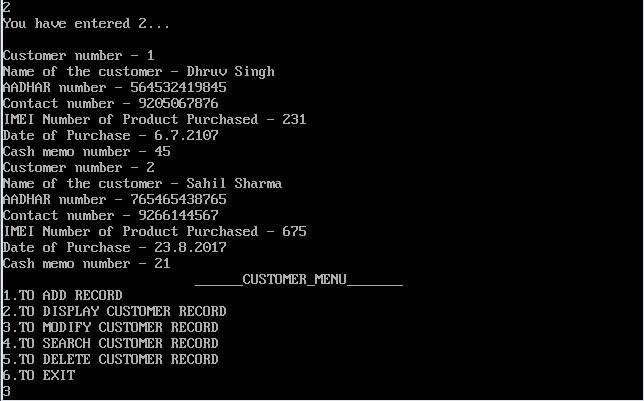
}

**MAIN MENU**

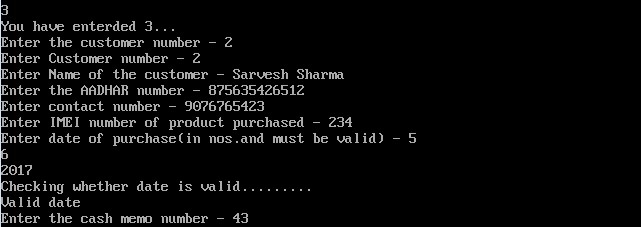


**CUSTOMER operations** 

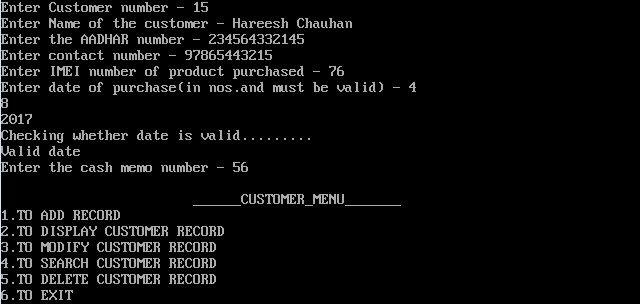
**DISPLAY customer details**

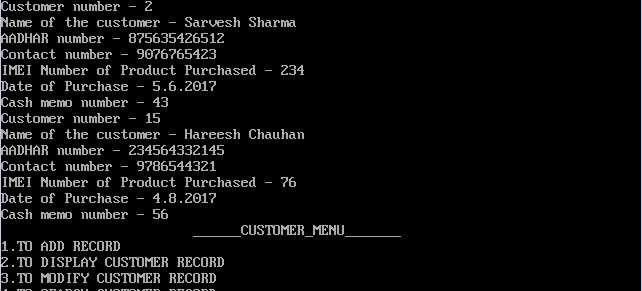


**MODIFICATION**

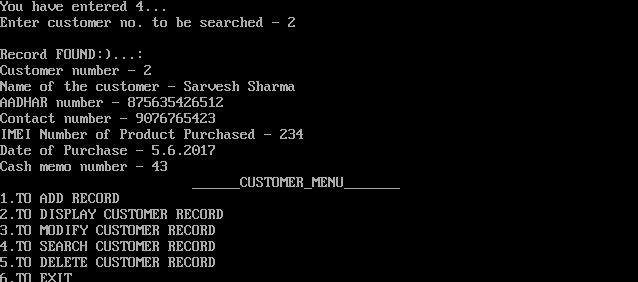


**DISPLAY after MODIFICATION**

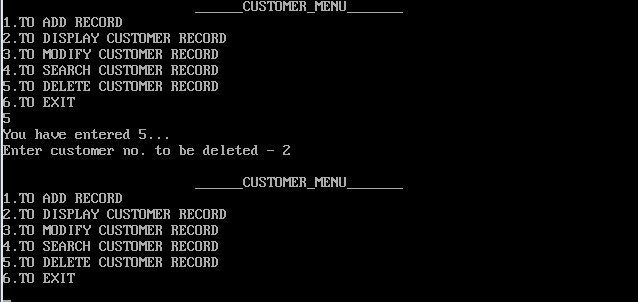




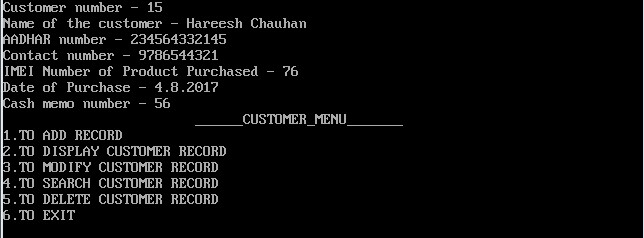
**SEARCHING CUSTOMER RECORD**



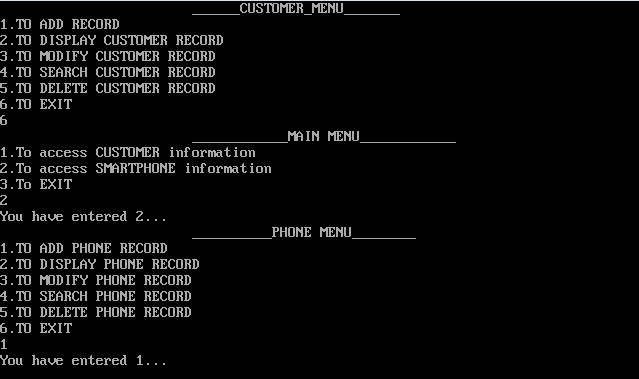
**DELETION of CUSTOMER RECORD**



**DISPLAY after DELETION**



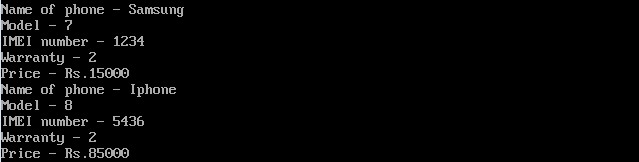
**SMARTPHONE FUNCTIONS**



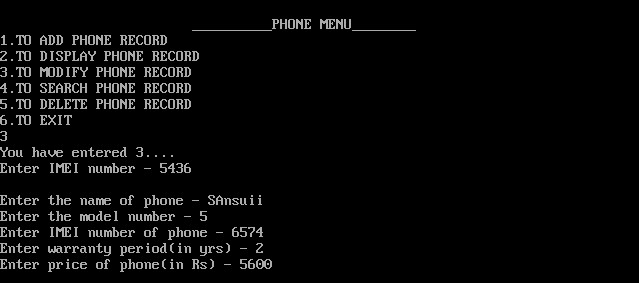
**ADDITION of SMARTPHONE RECORDS**



**DISPLAYING SMARTPHONE RECORDS**



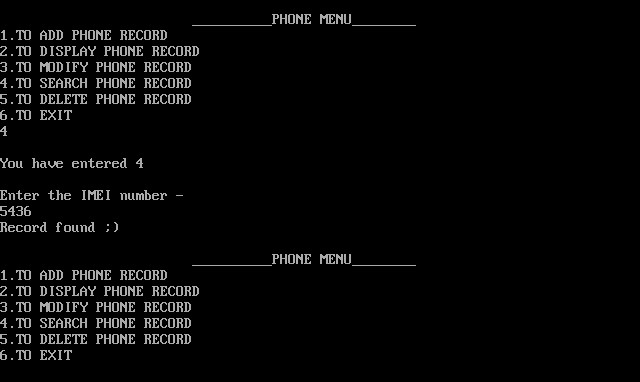
**MODIFICATION of SMARTPHONE RECORDS**



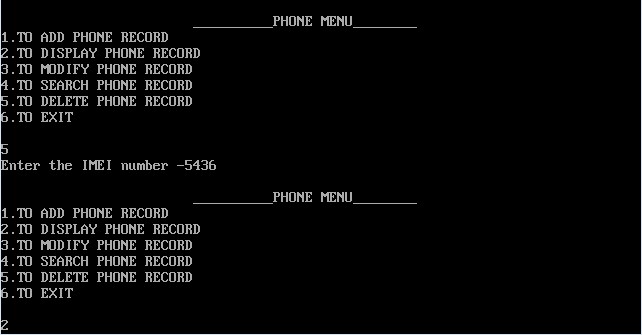
**DISPLAYING after MODIFICATION**

****

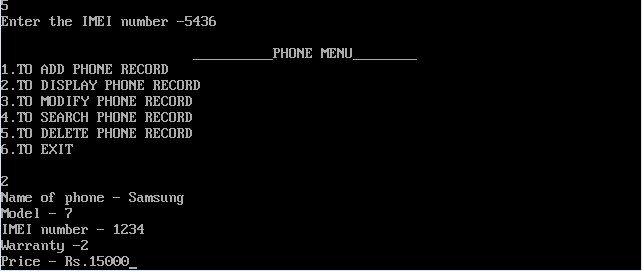
**SEARCHING a SMARTPHONE RECORD**



**DELETION of a SMARTPHONE RECORD**



**DISPLAYING after DELETION**



*The END*