#include<conio.h>

#include<stdio.h>

#include<process.h>

#include<fstream.h>

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

// CLASS USED IN PROJECT

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

class product

{

int pno;

char name[50];

float price,qty,tax,dis;

public:

void create\_product()

{

cout<<"\nPlease Enter The Product No. of The Product:\t";

cin>>pno;

cout<<"\n\nPlease Enter The Name of The Product:\t";

gets(name);

cout<<"\nPlease Enter The Price of The Product:\t";

cin>>price;

cout<<"\nPlease Enter The Discount (%):\t";

cin>>dis;

}

void show\_product()

{

cout<<"\nThe Product No. of The Product:\t"<<pno;

cout<<"\nThe Name of The Product:\t";

puts(name);

cout<<"\nThe Price of The Product:\t"<<price;

cout<<"\nDiscount:\t"<<dis;

}

int retpno()

{return pno;}

float retprice()

{return price;}

char\* retname()

{return name;}

int retdis()

{return dis;}

}; //class ends here

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

// global declaration for stream object, object

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

fstream fp;

product pr;

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

// function to write in file

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

void write\_product()

{

fp.open("Shop.dat",ios::out|ios::app);

pr.create\_product();

fp.write((char\*)&pr,sizeof(product));

fp.close();

cout<<"\n\nThe Product Has Been Created \*\*";

getch();

}

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

// function to read all records from file

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

void display\_all()

{

clrscr();

cout<<"\n\n\n\t\tDISPLAY ALL RECORD !!!\n\n";

fp.open("Shop.dat",ios::in);

while(fp.read((char\*)&pr,sizeof(product)))

{

pr.show\_product();

cout<<"\n\n====================================\n";

getch();

}

fp.close();

getch();

}

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

// function to read specific record from file

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

void display\_sp(int n)

{

int flag=0;

fp.open("Shop.dat",ios::in);

while(fp.read((char\*)&pr,sizeof(product)))

{

if(pr.retpno()==n)

{

clrscr();

pr.show\_product();

flag=1;

}

}

fp.close();

if(flag==0)

cout<<"\n\nrecord not exist\*\*";

getch();

}

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

// function to modify record of file

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

void modify\_product()

{

int no,found=0;

clrscr();

cout<<"\n\n\tTo Modify ";

cout<<"\n\n\tPlease Enter The Product No. of The Product:\t";

cin>>no;

fp.open("Shop.dat",ios::in|ios::out);

while(fp.read((char\*)&pr,sizeof(product)) && found==0)

{

if(pr.retpno()==no)

{

pr.show\_product();

cout<<"\nPlease Enter The New Details of Product:\t"<<endl;

pr.create\_product();

int pos=-1\*sizeof(pr);

fp.seekp(pos,ios::cur);

fp.write((char\*)&pr,sizeof(product));

cout<<"\n\n\t Record Updated";

found=1;

}

}

fp.close();

if(found==0)

cout<<"\n\n Record Not Found ";

getch();

}

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

// function to delete record of file

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

void delete\_product()

{

int no;

clrscr();

cout<<"\n\n\n\tDelete Record";

cout<<"\n\nPlease Enter The product no. of The Product You Want To Delete:\t";

cin>>no;

fp.open("Shop.dat",ios::in|ios::out);

fstream fp2;

fp2.open("Temp.dat",ios::out);

fp.seekg(0,ios::beg);

while(fp.read((char\*)&pr,sizeof(product)))

{

if(pr.retpno()!=no)

{

fp2.write((char\*)&pr,sizeof(product));

}

}

fp2.close();

fp.close();

remove("Shop.dat");

rename("Temp.dat","Shop.dat");

cout<<"\n\n\tRecord Deleted ..";

getch();

}

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

// function to display all products price list

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

void menu()

{

clrscr();

fp.open("Shop.dat",ios::in);

if(!fp)

{

cout<<"ERROR!!! FILE COULD NOT BE OPEN\n\n\n Go To Admin Menu to create File\*\*";

cout<<"\n\n\n Program is closing ....";

getch();

exit(0);

}

cout<<"\n\n\t\tProduct MENU\n\n";

cout<<"====================================================\n";

cout<<"P.NO.\t\tNAME\t\tPRICE\n";

cout<<"====================================================\n";

while(fp.read((char\*)&pr,sizeof(product)))

{

cout<<pr.retpno()<<"\t\t"<<pr.retname()<<"\t\t"<<pr.retprice()<<endl;

}

fp.close();

}

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

// function to place order and generating bill for Products

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

void place\_order()

{

int order\_arr[50],quan[50],c=0;

float amt,damt,total=0;

char ch='Y';

menu();

cout<<"\n============================";

cout<<"\n PLACE YOUR ORDER";

cout<<"\n============================\n";

do{

cout<<"\n\n Enter The Product No. Of The Product : ";

cin>>order\_arr[c];

cout<<"\n Quantity in number : ";

cin>>quan[c];

c++;

cout<<"\nDo You Want To Order Another Product ? (y/n)";

cin>>ch;

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

cout<<"\n\nThank You For Placing The Order";getch();clrscr();

cout<<"\n\n\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*INVOICE\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n";

cout<<"\nPr No Pr Name Quantity Price Amount after discount:\n";

for(int x=0;x<=c;x++)

{

fp.open("Shop.dat",ios::in);

fp.read((char\*)&pr,sizeof(product));

while(!fp.eof())

{

if(pr.retpno()==order\_arr[x])

{

amt=pr.retprice()\*quan[x];

damt=amt-(amt\*pr.retdis()/100);

cout<<order\_arr[x]<<"\b"<<"\t"<<pr.retname()

<<"\t\t"<<quan[x]<<"\t\t"<<pr.retprice()<<"\t\t"<<amt<<"\t\t"<<damt;

total+=damt;

}

fp.read((char\*)&pr,sizeof(product));

}

fp.close();

}

cout<<"\n\n\t\t\t\t\tTOTAL = "<<total;

getch();

}

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

// INTRODUCTION FUNCTION

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

void intro()

{

clrscr();

gotoxy(31,11);

cout<<"SUPER MARKET";

gotoxy(35,14);

cout<<"BILLING";

gotoxy(35,17);

cout<<"PROJECT";

cout<<"\n\nMADE BY : SOURABH INGALE";

cout<<"\n\nSCHOOL : Seven Mentor pvt";

getch();

}

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

// ADMINSTRATOR MENU FUNCTION

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

void admin\_menu()

{

clrscr();

char ch2;

cout<<"\n\n\n\tADMIN MENU";

cout<<"\n\n\t1.CREATE PRODUCT";

cout<<"\n\n\t2.DISPLAY ALL PRODUCTS";

cout<<"\n\n\t3.QUERY ";

cout<<"\n\n\t4.MODIFY PRODUCT";

cout<<"\n\n\t5.DELETE PRODUCT";

cout<<"\n\n\t6.VIEW PRODUCT MENU";

cout<<"\n\n\t7.BACK TO MAIN MENU";

cout<<"\n\n\tPlease Enter Your Choice (1-7) ";

ch2=getche();

switch(ch2)

{

case '1': clrscr();

write\_product();

break;

case '2': display\_all();break;

case '3':

int num;

clrscr();

cout<<"\n\n\tPlease Enter The Product No. ";

cin>>num;

display\_sp(num);

break;

case '4': modify\_product();break;

case '5': delete\_product();break;

case '6': menu();

getch();

case '7': break;

default:cout<<"\a";admin\_menu();

}

}

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

// THE MAIN FUNCTION OF PROGRAM

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

void main()

{

char ch;

intro();

do

{

clrscr();

cout<<"\n\n\n\tMAIN MENU";

cout<<"\n\n\t01. CUSTOMER";

cout<<"\n\n\t02. ADMINISTRATOR";

cout<<"\n\n\t03. EXIT";

cout<<"\n\n\tPlease Select Your Option (1-3):\t ";

ch=getche();

switch(ch)

{

case '1': clrscr();

place\_order();

getch();

break;

case '2': admin\_menu();

break;

case '3':exit(0);

default :cout<<"\a";

}

}while(ch!='3');

}