#include<conio.h>

#include<fstream>

#include<iostream>

#include<windows.h>

using namespace std;

inline void SetColor(WORD color)

{

SetConsoleTextAttribute(GetStdHandle(STD\_OUTPUT\_HANDLE),color);

}

class color

{

public:

color(WORD val) : m\_val(val){}

void set() const{

SetColor(m\_val);

}

private:WORD m\_val;

};

static const color blue(1);

static const color green(2);

static const color cyan(3);

static const color red(4);

static const color purple(5);

static const color darkyellow(6);

static const color white(7);

static const color gray(8);

static const color brightblue(9);

static const color brightgreen(10);

static const color brightcyan(11);

static const color brightred(12);

static const color pink(13);

static const color yellow(14);

static const color brightwhite(15);

inline std::ostream& operator<<(std::ostream& os,const color& c)

{

c.set();

return os;

}

class product

{

int prdno;

char name[50];

int total=0;

float price,qty,tax,dis;

public:

void create\_product();

void admin\_menu();

void intro();

void place\_order();

void menu();

void delete\_product(int);

void modify\_product();

void display\_all();

void write\_product();

void display\_all(int);

void show\_product();

product operator+=(int damt);

friend ostream& operator<<(ostream&,product);

void login\_logo();

void login\_menu();

int retprdno()

{

return prdno;

}

float retprice()

{

return price;

}

char\* retname()

{

return name;

}

int retdis()

{

return dis;

}

};

fstream fp;

product pr;

void product::create\_product()

{

cout<<brightcyan<<color(11)<<endl;

cout<<"\n\n\t\t\t\t\t\t\t^^^^^^^^^^^^^^^^^^^^^^^^ PLEASE ENTER THE NEW PRODUCT DETAILS ^^^^^^^^^^^^^^^^^^^^^^^^^^";

cout<<"\n\n\n\t\t\t\t\t\t\t\tPlease enter the Product No. of the product : ";

cin>>prdno;

cout<<"\n\n\n\t\t\t\t\t\t\t\tPlease enter the Name of the product : ";

cin>>name;

cout<<"\n\n\n\t\t\t\t\t\t\t\tPlease enter the Price of the product : ";

cin>>price;

cout<<"\n\n\n\t\t\t\t\t\t\t\tPlease enter the Discount(%) : ";

cin>>dis;

}

void product::show\_product()

{

cout<<cyan<<color(3)<<endl;

cout<<"\n\n\t\t\t\t\t\t\t\t\t\tThe Product No. of the product : "<<prdno;

cout<<"\n\n\n\t\t\t\t\t\t\t\t\t\tThe Name of the product : ";

cout<<name;

cout<<"\n\n\n\t\t\t\t\t\t\t\t\t\tThe Price of the product : "<<price;

cout<<"\n\n\n\t\t\t\t\t\t\t\t\t\tDiscount : "<<dis;

}

void product::write\_product()

{

cout<<green<<color(2)<<endl;

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

pr.create\_product();

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

fp.close();

cout<<"\n\n\n\n\n\n\t\t\t\t\t\t\t\tThe Product has been created ";

getch();

}

void product::display\_all()

{

cout<<pink<<color(13)<<endl;

system("cls");

cout<<"\n\n\n\t\t\t\t\t&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& !!! DISPLAY ALL RECORD !!! &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&\n\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();

}

void product::display\_all(int n)

{

cout<<purple<<color(5)<<endl;

int flag=0;

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

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

{

if(pr.retprdno()==n)

{

system("cls");

pr.show\_product();

flag=1;

}

}

fp.close();

if(flag==0)

cout<<"\n\n\n\n\t\t\t\t\t\t\t\t\t\t\trecord not exist";

getch();

}

void product::modify\_product()

{

cout<<darkyellow<<color(6)<<endl;

int no,found=0;

system("cls");

cout<<"\n\n\t\t\t\t\t\t\t####################################### TO MODIFY #########################################\t";

cout<<"\n\n\n\n\t\t\t\t\t\t\t\t\t\tPlease enter the Product No. of the Product : ";

cin>>no;

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

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

{

if(pr.retprdno()==no)

{

pr.show\_product();

pr.create\_product();

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

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

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

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

found=1;

}

}

fp.close();

if(found==0)

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

getch();

}

void product::delete\_product(int no=0)

{

cout<<yellow<<color(14)<<endl;

system("cls");

cout<<"\n\n\n\t\t\t\t\t??????????????????????????????????????????? DELETE RECORD ????????????????????????????????????????????????";

cout<<"\n\n\n\n\t\t\t\t\t\t\t\tPlease enter the product No. of the product you want to delete : ";

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.retprdno()!=no)

{

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

}

}

fp2.close();

fp.close();

remove("Shop.dat");

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

cout<<"\n\n\n\n\n\n\t\t\t\t\t\t\t!!!!!!!!!!!!!!!!!!!!!!!!!!! Record Deleted.... !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!";

getch();

}

void product::menu()

{

cout<<brightblue<<color(9)<<endl;

system("cls");

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\t\t\t\t\t\t\t\t\tPRODUCT MENU\n\n";

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

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

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

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

{

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

}

fp.close();

}

product product::operator+=(int damt)

{

total=total+damt;

return \*this;

}

void product::place\_order()

{

product p;

cout<<gray<<color(8)<<endl;

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

float amt,damt;

char ch='Y';

menu();

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

cout<<"\n \t\t\t\t\t\t\t\t\t\t -->>PLACE YOUR ORDER<<--";

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

do

{

cout<<"\n\n\t\t\t\t\t\t\tEnter the Product No. of the Product :";

cin>>order\_arr[c];

cout<<"\n\t\t\t\t\t\t\tQuantity in number :";

cin>>quan[c];

c++;

cout<<"\n\t\t\t\t\t\t\tDo you want to order another product ?(y/n)";

cin>>ch;

}

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

cout<<"\n\t\t\t\t\t\t\tThank You for placing the order";

getch();

system("cls");

cout<<brightwhite<<color(15)<<endl;

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

cout<<"\n\tProduct No.\t\t\tProduct Name\t\t\tProduct Quantity\t\t\tProduct Price\t\t\tProduct Amount\t\t\tAmount for 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.retprdno()==order\_arr[x])

{

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

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

cout<<"\n\t\t"<<order\_arr[x]<<"\t\t\t\t"<<pr.retname()<<"\t\t\t\t"<<quan[x]<<"\t\t\t\t"<<pr.retprice()<<"\t\t\t\t"<<amt<<"\t\t\t\t"<<damt;

p+=damt;

cout<<p;

}

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

}

fp.close();

}

}

ostream& operator<<(ostream& out,product p1)

{

out<<"\n\n\n\n\t\t\t\t\t\t\t\t\t\t\t\tTotal Amount = "<<p1.total<<endl;

return out;

}

void gotoxy(int x,int y)

{

HANDLE Manipulador;

COORD Coordenadas;

Manipulador=GetStdHandle(STD\_OUTPUT\_HANDLE);

Coordenadas.X=x;

Coordenadas.Y=y;

SetConsoleCursorPosition(Manipulador,Coordenadas);

}

void product::intro()

{

cout<<brightgreen<<color(10)<<endl;

system("cls");

gotoxy(50,8);

cout<<"@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@\*\*\*\*\*----->> BIG BAZAR <<-----\*\*\*\*\*@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@";

gotoxy(50,16);

cout<<"@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@\*\*\*\*\*----->> BILLING <<-----\*\*\*\*\*@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@";

gotoxy(50,24);

cout<<"@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@\*\*\*\*\*----->> PROJECT <<-----\*\*\*\*\*@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@";

cout<<"\n\n\n\n\n\n\n\n \t\t\t\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*~~~~~~MADE BY : Preethi.H.R. \t\t Nayana Reddy~~~~~\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*";

cout<<"\n\n\n\n\t\t\t\t\t\t~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~COLLEGE : NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~";

getch();

}

void product::login\_logo()

{

system("cls");

int i;

gotoxy(32,9);

for(i=0;i<11;i++)

cout<<"|\n\t\t\t\t";

gotoxy(112,9);

for(i=0;i<11;i++)

cout<<"|\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t";

gotoxy(32,8);

for(i=0;i<80;i++)

cout<<"\_";

gotoxy(70,10);

cout<<"ADMISTRATOR LOGIN";

gotoxy(33,12);

for(i=0;i<80;i++)

cout<<"-";

}

void product::login\_menu()

{

int i;

int flag=0;

product pr;

string uname;

int upassword;

upassword=123;

pr.login\_logo();

gotoxy(33,17);

for(i=0;i<9;i++)

cout<<"|\n\t\t\t\t";

gotoxy(112,17);

for(i=0;i<9;i++)

cout<<"|\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t";

gotoxy(33,8);

gotoxy(33,25);

for(i=0;i<80;i++)

cout<<"\_";

gotoxy(55,15);

cout<<"LOG IN";

gotoxy(45,18);

cout<<"Enter username :\t";

cin>>uname;

if(uname=="preethi"||uname=="nayana")

{

gotoxy(45,20);

cout<<"Enter Password :\t";

cin>>upassword;

if(upassword==123)

{

pr.admin\_menu();

}

else

gotoxy(45,22);

cout<<"Sorry,You had entered Wrong Password\n";

exit(0);

}

else

gotoxy(45,20);

cout<<"Sorry,You had entered Wrong Username";

exit(0);

}

void product::admin\_menu()

{

cout<<brightred<<color(12)<<endl;

system("cls");

char ch2;

cout<<"\n\n\n\t\t\t\t\t\t\t%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%% ADMINISTRATION MENU %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%\n";

cout<<"\t\t\t\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_";

cout<<"\n\n\n\n\t\t\t\t\t\t\t\t\t((((((((((((((\*\*\*\*\*\* 1: CREATE PRODUCT \*\*\*\*\*\*))))))))))))))";

cout<<"\n\n\n\n\t\t\t\t\t\t\t\t\t((((((((((((((\*\*\*\*\*\* 2: DISPLAY ALL PRODUCT \*\*\*\*\*\*))))))))))))))";

cout<<"\n\n\n\n\t\t\t\t\t\t\t\t\t((((((((((((((\*\*\*\*\*\* 3: QUERY \*\*\*\*\*\*))))))))))))))";

cout<<"\n\n\n\n\t\t\t\t\t\t\t\t\t((((((((((((((\*\*\*\*\*\* 4: MODIFY PRODUCT \*\*\*\*\*\*))))))))))))))";

cout<<"\n\n\n\n\t\t\t\t\t\t\t\t\t((((((((((((((\*\*\*\*\*\* 5: DELETE PRODUCT \*\*\*\*\*\*))))))))))))))";

cout<<"\n\n\n\n\t\t\t\t\t\t\t\t\t((((((((((((((\*\*\*\*\*\* 6: VIEW PRODUCT MENU \*\*\*\*\*\*))))))))))))))";

cout<<"\n\n\n\n\t\t\t\t\t\t\t\t\t((((((((((((((\*\*\*\*\*\* 7: BACK TO MAIN MENU \*\*\*\*\*\*))))))))))))))";

cout<<"\n\n\n\n\t\t\t\t\t\t\t\t\tPlease enter your choice (1-7) : ";

ch2=getche();

switch(ch2)

{

case '1':system("cls");

pr.write\_product();

pr.admin\_menu();

break;

case '2':pr.display\_all();

pr.admin\_menu();

break;

case '3':int num;

system("cls");

cout<<"\n\n\n\n\t\t\t\t\t\t %%%%%%%%%\*\*\*\*\*\*\*\*\*\*\*\*\*\*+++++++++++++\*\*\*\*\*\*\*\*\*\*\*\*\*\* CLARIFICATION \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*++++++++++++++\*\*\*\*\*\*\*\*\*\*\*\*\*\*%%%%%%%%%%";

cout<<"\n\n\n\n\n\t\t\t\t\t\t\t\t\t\t\tPlease enter the Product No. : ";

cin>>num;

pr.display\_all(num);

pr.admin\_menu();

break;

case '4':pr.modify\_product();

admin\_menu();

break;

case '5':pr.delete\_product();

pr.admin\_menu();

break;

case '6':pr.menu();

getch();

pr.admin\_menu();

case '7':exit(0);

default:cout<<"\a";

}

}

int main()

{

char ch;

pr.intro();

cout<<pink<<color(13)<<endl;

do

{

system("cls");

cout<<"\n\t\t\t\t\t\t$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$-->> Welcome to Big Bazar Billing System Application <<--$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$\n\n\n";

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

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

cout<<"\t\t\t\t\t\t\t\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_";

cout<<"\n\n\t\t\t\t\t\t\t\t\t\t\t\t01 : CUSTOMER";

cout<<"\n\n\t\t\t\t\t\t\t\t\t\t\t\t02 : ADMINISTRATOR";

cout<<"\n\n\t\t\t\t\t\t\t\t\t\t\t\t03 : EXIT";

cout<<"\n\n\t\t\t\t\t\t\t\t\t\t\tPlease select your option";

ch=getche();

switch(ch)

{

case '1':system("cls");

pr.place\_order();

getch();

break;

case '2':pr.login\_logo();

pr.login\_menu();

pr.admin\_menu();

break;

case '3':exit(0);

default:cout<<"\a";

}

}

while(ch!='3');

}