Thisis to certify that **mast. rishikesh**, a student of class xii science has successfully completed the computer science practical project on the topic **“ super market billing project”** under the guidance

of mrs.rachna singh(subject teacher).

This project is absolutely genuine and does not indulge in plagiarism of any kind.

The references taken in making this project have been declared at the end of this report.

Subject teacher principal(signature)

(signature)

Mrs.rachna singh mr.r.s.uladi

Examiner(signature)

**Acknowledgement**

I feel proud to present my investigatory project in computer science on the topic ”**super** **market** **billing** **project**”.

There are times when silence speaks so much loudly than words of praise to only as good as be little a person, whose words do not express, but only put a veneer over true feelings, which are of gratitude at this point of time”.

This project wouldn’t have been feasible without the proper and rigorous guidance of my computer science teacher **mrs**.**rachna** **Singh** who guided me throughout this project in every possible way. an investigatory project involves various difficult lab experiments which I have to carried out by the student to obtain the observations and conclude the report on a meaningful note. These experiments are very critical and in the case of failure, may result in disastrous consequences.

Rigorous hard work has been put in this project to ensure that it proves to be the best.

*I hope that this project will prove to be a breeding ground for the next generation of students and will guide them in every possible way.*

Rishikesh

**SUPER MARKET BILLING PROJECT**

//================================================================

// HEADER FILES USED IN PROJECT

//================================================================

#include<conio.h>

#include<stdio.h>

#include<process.h>

#include<string.h>

#include<fstream.h>

#include<dos.h>

//================================================================

// CLASS USED IN PROJECT

//================================================================

class product

{

int pno;

char name[50];

float price,qty,tax,dis;

public:

void create\_product()

{ clrscr();

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

cin>>pno;

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

gets(name);

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

cin>>price;

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

cin>>dis;

}

void show\_product()

{ clrscr();

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

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

puts(name);

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

cout<<"\nDiscount : "<<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()

{ clrscr();

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

pr.create\_product();

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

fp.close();

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

getch();

}

//==============================================

// function to read specific record from file

//==============================================

void display\_sp(int n)

{ clrscr();

int flag=0;

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

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";cin>>no;

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

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

{

if(pr.retpno()==no)

{

pr.show\_product();

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

cin>>no;

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

fstream fp2;

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

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|ios::binary);

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 .";

delay(2000);

getch();

exit(0);

}

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

for(int i=1;i<=65;i++)

cout<<char(205);

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

for(i=1;i<=65;i++)

cout<<char(205);

cout<<endl;

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()

{ clrscr(); int order\_arr[50],quan[50],c=0;

float amt,damt,total=0;

char ch='Y';

menu();

for(int i=1;i<=65;i++)

cout<<char(205);

cout<<"\n PLACE YOUR ORDER\n";

for(i=1;i<=65;i++)

cout<<char(205);

do{

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

cin>>order\_arr[c];

cout<<"\nQuantity 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();

for(i=1;i<=30;i++)

cout<<char(205);

cout<<"BILL";

for(i=34;i<=75;i++)

cout<<char(205);

cout<<"\nPr No.\tPr Name\t\tQuantity \tPrice \tAmount \tAmount after discount\n";

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

{

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

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

total+=damt;

}

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

}

fp.close();

}

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

for(i=1;i<=77;i++)

cout<<char(205);

getch();

gotoxy (1,2);

}

//==============================================

// SECURITY FUNCTION

//==============================================

void password()

{ char str[7];

cout<<"\n\n\nEnter Password\t";

gets(str);

if(strcmp(str,"uchiha")==0)

return;

else

cout<<"\nUNAUTHORISED ACCESS";

delay(1500);

exit(0);

}

//==============================================

// INTRODUCTION FUNCTION

//==============================================

void intro()

{ clrscr();

gotoxy(19,9);

cout<<char(201); // |-

for(int i=20;i<=60;i++)

{

gotoxy(i,9);

cout<<char(205); // =

}

cout<<char(187); // -|

gotoxy(19,16);

cout<<char(200); // |\_

for(i=20;i<=60;i++)

{

gotoxy(i,16);

cout<<char(205);

}

cout<<char(188); //\_|

for(i=10;i<=15;i++)

{

gotoxy(19,i);

cout<<char(186); //||

}

for(i=10;i<=15;i++)

{

gotoxy(61,i);

cout<<char(186); //||

}

gotoxy(21,10);cout<<"NAME : RISHIKESH";

gotoxy(21,11);cout<<"CLASS : XII SCI";

gotoxy(21,12);cout<<"SCHOOL : KENDRIYA VIDYALAYA I.S.P";

gotoxy(21,13);cout<<"GUIDED BY : MRS. RACHNA SINGH";

gotoxy(21,14);cout<<"ROLL NO. : 32";

gotoxy(5,24); cout<<"Press any key to continue";

getch();

}

//==============================================

// DETAILS FUNCTION

//==============================================

void details()

{ clrscr() ;

gotoxy(28,5) ;cout<<" Welcome to Project" ;

textcolor(RED+BLINK) ; textbackground(WHITE) ;

gotoxy(22,7) ;cprintf(" SUPER MARKET BILLING PROJECT") ;

textcolor(LIGHTGRAY) ; textbackground(BLACK) ;

gotoxy(15,10) ;cout<<"This is the project where you can maintain records" ;

gotoxy(15,11) ;cout<<"of Products." ;

gotoxy(15,13) ;cout<<"One member can create products,query about them" ;

gotoxy(15,14) ;cout<<"modify products,delete products,see list" ;

gotoxy(15,15) ;cout<<"you can also order them" ;

gotoxy(27,24) ;cprintf("Press any key to continue") ;

getch() ;

}

//==============================================

// THE MAIN FUNCTION OF PROGRAM

//==============================================

void main()

{

clrscr();

password();

int i;

char ch;

details();

intro();

ok:

clrscr();

char ch2;

cout<<" ";

for(i=1;i<=35;i++)

cout<<char(205);

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

for(i=1;i<=35;i++)

cout<<char(205);

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

cout<<"\n\n\t2.QUERY ";

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

cout<<"\n\n\t4.DELETE ";

cout<<"\n\n\t5.LIST ";

cout<<"\n\n\t6.ORDER ";

cout<<"\n\n\t7.HELP ";

cout<<"\n\n\t0.EXIT ";

cout<<"\n\n\n\tPlease Enter Your Choice (0-7)\n ";

for(i=1;i<=35;i++)

cout<<char(205);

gotoxy(42,21);

ch2=getche();

switch(ch2)

{

case '1': write\_product();goto ok;

break;

case '2': int num;clrscr();

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

cin>>num;

display\_sp(num); goto ok;

break;

case '3': modify\_product(); goto ok;

break;

case '4': delete\_product(); goto ok;

break;

case '5': menu();

for(i=1;i<=65;i++)

cout<<char(205);

getch(); goto ok;

break;

case '6': place\_order(); goto ok;

break;

case '7': details();goto ok;

goto ok;

case '0': exit(0);

default : goto ok;

}

}

//==============================================

// END OF PROJECT

//==============================================

***BIBLIOGRAPHY***

**NCERT COMPUTER SCIENCE TEXTBOOK**

**WWW.ICBSE.COM**











