

D.A.V. PUBLIC SCHOOL, AIROLI

COMPUTER SCIENCE PROJECT



SESSION 2019-2020

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Class : XII B1

Roll No : 41

CERTIFICATE

This is to certify that Master Tanish Afre of Std XII, D. A. V. Public School, Airoli, has successfully completed the journal programs during the academic year 2019-2020. It is further certified that the project is the genuine work of the student and has been done sincerely and satisfactorily.

**External Examiner's
Signature**

Teacher's Signature

School Stamp

ACKNOWLEDGEMENT

In the accomplishment of this project successfully, many people have bestowed upon me their blessings and a heart pledged support, these time I am utilizing to thank all the people who have been concerned with my project.

Primarily I would thank god for being able to complete this project with success. Then I would like to thank my principal Mrs.Suruchi Kataria and computer science teacher Mrs. Manisha Desai whose valuable guidance helped me patch this project. Their instructions have served as a major contributor towards the completion of the project.

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Last but not the least I would like to thank my classmates who have helped me a lot.

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SOURCE CODE

```
#include<iostream.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 ";

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()
{
    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()
{
    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";
    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"<<endl;
            pr.create_product();
            int pos=-1*sizeof(pr);
            fp.seekp(pos,ios::cur);
            fp.write((char*)&pr,sizeof(product));
            cout<<"\n\n\tRecord Updated";
            found=1;
        }
    }
    fp.close();
    if(found==0)
        cout<<"\n\nRecord 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);
```

```
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.retrname()<<"\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\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();

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

cout<<"\nPr No.\tPr Name\tQuantity \tPrice \tAmount \tAmount 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<<"\n"<<order_arr[x]<<"\t"<<pr.retname()

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

total+=damt;

}

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

}

fp.close();

}

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

getch();

```

```
}
```

```
//*****
```

```
// INTRODUCTION FUNCTION
```

```
//*****
```

```
void intro()
```

```
{
```

```
clrscr();
```

```
/*for(int i=0;i<80;i++)
```

```
{ delay(5);
```

```
cout<<"*";
```

```
}*/
```

```
gotoxy(35,5);
```

```
cout<<"SUPER MARKET";
```

```
gotoxy(37,4);
```

```
cout<<"BILLING";
```

```
gotoxy(37,11);
```

```
cout<<"PROJECT";
```

```
cout<<"\n\nMADE BY : Tanish";
```

```
cout<<"\n\nROLL NUMBER : 41";
```

```
getch();
```

```
}
```

```
//*****
```

```
// ADMINSTRATOR MENU FUNCTION
```

```

//*****
void admin_menu()
{
clrscr();
char ch2;
cout<<"\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) ";
```



```
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');
}
```

SCREEN SHOTS

BILLING
SUPER MARKET

PROJECT

MADE BY : Tanish

ROLL NUMBER : 41

MAIN MENU

01. CUSTOMER

02. ADMINISTRATOR

03. EXIT

Please Select Your Option (1-3)

ERROR!!! FILE COULD NOT BE OPEN

Go To Admin Menu to create File

Program is closing_

```
ADMIN MENU

1.CREATE PRODUCT

2.DISPLAY ALL PRODUCTS

3.QUERY

4.MODIFY PRODUCT

5.DELETE PRODUCT

6.VIEW PRODUCT MENU

7.BACK TO MAIN MENU

Please Enter Your Choice (1-7) _
```

After pressing 1

```
Please Enter The Product No. of The Product 1

Please Enter The Name of The Product Cake

Please Enter The Price of The Product 300

Please Enter The Discount (%) 10

The Product Has Been Created _
```

After pressing 2

```
DISPLAY ALL RECORD ???

The Product No. of The Product : 1
The Name of The Product : Cake

The Price of The Product : 300
Discount : 10

=====
-
```

After pressing 3

```
The Product No. of The Product : 1
The Name of The Product : Cake

The Price of The Product : 300
Discount : 10
```

After pressing 4

```
          To Modify

Please Enter The Product No. of The Product1

The Product No. of The Product : 1
The Name of The Product : Cake

The Price of The Product : 300
Discount : 10
Please Enter The New Details of Product

Please Enter The Product No. of The Product 200

Please Enter The Name of The Product Cake's

Please Enter The Price of The Product 350

Please Enter The Discount (%) 10

          Record Updated
```

After pressing 6

```
          Product MENU

=====
P.NO.      NAME      PRICE
=====
200        Cakes's   350
-          -          -
```