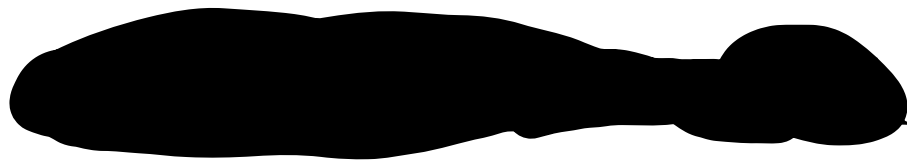


COMPUTERSCIENCE

PROJECT ON

**Supermarket**

**Billing System**



CLASS:12-A

2017-2018

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# **Acknowledgement**

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# **Certificate**

**This is to certify that [REDACTED] New  
Green Field School, Alaknanda has successfully  
completed his project in computer practicals as  
prescribed by CBSE in the year 2017-2018.**

**Date :**

**Registration No. [REDACTED]**

# HEADER FILES USED AND THEIR PURPOSE

1. **FSTREAM.H** – for file handling, cin and cout
2. **PROCESS.H** – for exit() function
3. **CONIO.H** – for clrscr() and getch() functions
4. **STDIO.H** – for standard I/O operations
5. **STRING.H** – for string handling
6. **CTYPE.H** – for character handling

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

```
// HEADER FILE USED IN PROJECT
```

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

```
#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 ";
    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.retprno()==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);

    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\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*****INVOI
CE*****\n";

cout<<"\nPr No.\tPr Name \tQuantity Price
\tAmount \tAmount afterdiscount\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\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 : SAGAR ARORA";

```

```

cout<<"\n\nSCHOOL :NEW GREEN FIELDS SCHOOL";

getch();

}

//*****
*****

// ADMINSTRATOR MENU FUNCTION

//*****
*****

void admin_menu()
{
clrscr();

char ch2;

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

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

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

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

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

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

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

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

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

cin>>ch2;

```

```
getch();
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\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');

getch();

}

//*****

*****

// END OF PROJECT

//*****

*****

```

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

```
//  OUTPUT  SCREEN
```

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

OUTPUT :

SUPER MARKET

BILLING

PROJECT

MADE BY : SAGAR ARORA

SCHOOL :NEW GREEN FIELDS SCHOOL\_

MAIN MENU

01. CUSTOMER

02. ADMINISTRATOR

03. EXIT

Please Select Your Option (1-3) 1



Product MENU		
P.NO.	NAME	PRICE
1	chips(lays)	78
2	biscuits	200
3	cosmetics	500
4	veg combo	699
5	fruit combo	999
6	tools(harley)	5999
7	cold drinks	599
=====		
PLACE YOUR ORDER		
=====		

```

Enter The Product No. Of The Product :
1
Quantity in number : 2
Do You Want To Order Another Product ? (y/n) y

Enter The Product No. Of The Product : 3
Quantity in number : 6
Do You Want To Order Another Product ? (y/n) y

Enter The Product No. Of The Product : 7
Quantity in number : 7

```

Enter The Product No. Of The Product : 5

Quantity in number : 45

Do You Want To Order Another Product ? (y/n) n

Thank You For Placing The Order\_

\*\*\*\*\*INVOICE\*\*\*\*\*

Pr No.	Pr Name	Quantity	Price	Amount	Amount after discount
1	chips(lays)	2	78	156	146.639999
3	cosmetics	6	500	3000	2820
7	cold drinks	7	599	4193	3941.419922
5	fruit combo	45	999	44955	44055.898437

TOTAL = 50963.957031\_

MAIN MENU

01. CUSTOMER

02. ADMINISTRATOR

03. EXIT

Please Select Your Option (1-3) 2\_

## 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) 1\_

Please Enter The Product No. of The Product 7

Please Enter The Name of The Product pens

Please Enter The Price of The Product 100

Please Enter The Discount (%) 2

The Product Has Been Created

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) 4

To Modify

Please Enter The Product No. of The Product 7

The Product No. of The Product : 7

The Name of The Product : cold drinks

The Price of The Product : 599

Discount : 6

Please Enter The New Details of Product

Please Enter The Product No. of The Product 7

Please Enter The Name of The Product doors

Please Enter The Price of The Product 12000

Please Enter The Discount (%) 2

Record Updated\_

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) 5\_

Delete Record

Please Enter The product no. of The Product You Want To Delete ?

Record Deleted ..\_

# 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) 6\_

## Product MENU

=====		
P.NO.	NAME	PRICE
=====		
1	chips(lays)	78
2	biscuits	200
3	cosmetics	500
4	veg combo	699
5	fruit combo	999
6	tools(harley)	5999

MAIN MENU

01. CUSTOMER

02. ADMINISTRATOR

03. EXIT

Please Select Your Option (1-3) 3

# **BIBLIOGRAPHY**



**Computer Science In C++ By :-  
Preeti Arora And Pinky Gupta  
(Sultan Chand)**