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# **Acknowledgement**

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# 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.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);  
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.retlineno()<<"\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
\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();  
}  
  
//*****  
*****  
  
// ADMINISTRATOR 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) ";  
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\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:

**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 ?

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 ?

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**



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**(Sultan Chand)**