

```
class bill
{
char customer[20];
char contact[20];
char d[20];
char fest[20];
char *line;
char pid[20];
char item_name[30];
char price[20];
char date[20];
double mrp;
double amount;
double billedamt;
double totalbill;
double dbill;

public:
    bill()//Initialization through constructor for bill amount i.e. initial amount to be zero
    {
        totalbill=0;
        dbill=0;
    }

    void billdetails()
    {
        system("mode 130,49");
        cout<<
MARKET INFINITY SUPER
cout<<"<<<endl;
cout<<
TO CONTINUE: "
}

using namespace std;
#include"item.cpp"
item ob2;
ob2.displayitem();
cart ob;
gotoxy(0,17);
cout<<
gotoxy(60,18);
cout<<"ADD ITEMS"<<endl;
billedamt=0;
char z;
ofstream ofs("billdetails.csv",ios::out|ios::app);
gotoxy(0,19);
cout<<endl<<"\nENTER DATE (DD-MM-YYYY): ";
cin>>date;
cout<<"ENTER CUSTOMER NAME: ";
cin>>customer;
cout<<"ENTER CONTACT NO: ";
cin>>contact;
ofs<<date<<", "<<customer<<", "<<contact<<"*<<endl;
int f=0;
int y=27;
int x=2;
cout<<"'s' TO SAVE AND EXIT OR ANY KEY
TO CONTINUE: ";
gotoxy(x,y);
cout<<"ITEM";
gotoxy(x+12,y);
cout<<"QTY.";
gotoxy(x+20,y);
cout<<"MRP.";
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        dbill=0;
        do{
            char pc[10];
            gotoxy(0,25);
            cout<<"ENTER PRODUCT ID: ";
            gotoxy(19,25);
            cout<<"          ";
            gotoxy(19,25);
            cin>>pc;
            y++;
            f++;
            if(f==12)
            {
                f=0;
                x=x+35;
                y=28;
            }
            mrp=ob.itemfetch(pc,x,y);
            amount=billamt(mrp);
            billedamt=billedamt+amount;
            gotoxy(87,24);
            z=getch();

            }while(z!='s');
        ofs.close();
        discount(billedamt,date);
    }

    double billamt(double amt)
{
    totalbill=0;
    amt=amt-(0.1*amt);
    totalbill=totalbill+amt;
    gotoxy(112,28);
    cout<<"          ";
    gotoxy(100,28);
    dbill=dbill+totalbill;
    cout<<"Total Amount: "<<dbill;
    return totalbill;
}

void discount(double disc,char date_d[])
{
    billedamt=0;
    int k=0;
    int c=0;
    int flag=0;
    ofstream ofs("billdetails.csv",ios::out|ios::app);
    ifstream ifs("dates.csv");
    line=new char[sizeof(ifs)];
    ifs>>line;
    while(!ifs.eof())
    {
        for(;line[k]!='\0';k++)
            d[c++]=line[k];
        d[c]='\0';
        c=0;
        k++;
        for(;line[k]!='\0';k++)
            fest[c++]=line[k];
        fest[c]='\0';
        c=0;
        k=0;

        if(strcmp(date,d)==0)
        {
            flag=1;
            break;
        }
    }
}

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        delete []line;
        line=new char[sizeof(ifs)];
        ifs>>line;
    }
    if(flag==1)
    {
        if(disc>=2000)
        {
            billedamt=disc-(0.4*disc);
            gotoxy(90,42);
            cout<<"With 10% Discount On Each Item";
            gotoxy(90,44);
            cout<<"Festive Season, Its "<<"*"<<fest<<"*";
            gotoxy(90,46);
            cout<<"40% "<<"*"<<fest<<"*"<<" Discount >2000";
            gotoxy(90,48);
            cout<<"FINAL BILL= Rs"<<billedamt;
            ofs<<"BILL"<<","<<"Rs"<<","<<billedamt<<"*"<<endl;
            ofs<<"#"<<endl;
        }
        else
        {
            gotoxy(90,42);
            cout<<"With 10% Discount On Each Item";
            gotoxy(90,44);
            cout<<"Festive Season, Its "<<"*"<<fest<<"*";
            gotoxy(90,46);
            cout<<"No "<<"*"<<fest<<"*"<<" Discount <2000";
            gotoxy(90,48);
            cout<<"FINAL BILL= Rs"<<disc;
            ofs<<"BILL"<<","<<"Rs"<<","<<disc<<"*"<<endl;
            ofs<<"#"<<endl;
        }
    }

    else
    {
        if(disc>=5000)
        {
            billedamt=disc-(0.05*disc);
            gotoxy(95,42);
            cout<<"With 10% Discount On Each Item";
            gotoxy(95,44);
            cout<<"5% Extra Discount for >5000";
            gotoxy(95,46);
            cout<<"FINAL BILL= Rs"<<billedamt;
            ofs<<"BILL"<<","<<"Rs"<<","<<billedamt<<"*"<<endl;
            ofs<<"#"<<endl;
        }
        else
        {
            gotoxy(95,42);
            cout<<"With 10% Discount On Each Item"<<endl;
            gotoxy(95,44);
            cout<<"FINAL BILL= Rs"<<disc;
            ofs<<"BILL"<<","<<"Rs"<<","<<disc<<"*"<<endl;
            ofs<<"#"<<endl;
        }
    }
}
}

void see_archived_details(char DATE[])//new funcction for viewing bill by date
{
    int i,c,y;
    int flag=0;
    ifstream ifs("billdetails.csv");
    line=new char[sizeof(ifs)];
    ifs>>line;

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gotoxy(45,2);
cout<<"Date";
gotoxy(57,2);
cout<<"Customer";
gotoxy(67,2);
cout<<"Contact";
y=5;
while(!ifs.eof())
{
    c=0;
    i=0;
    for(;line[i]!=' ';i++)
        pid[c++]=line[i];
    pid[c]='\0';
    i++;
    c=0;
    if(strcmp(pid,DATE)==0)
    {
        flag=1;
        while(!ifs.eof() && line[0]!='#')
        {
            c=0;
            i=0;
            for(;line[i]!=' ';i++)
                pid[c++]=line[i];
            pid[c]='\0';
            i++;
            c=0;
            for(;line[i]!=' ';i++)
                item_name[c++]=line[i];
            item_name[c]='\0';
            i++;
            c=0;
            for(;line[i]!='*';i++)
                price[c++]=line[i];
            price[c]='\0';
            gotoxy(45,y);
            cout<<pid;
            gotoxy(57,y);
            cout<<item_name;
            gotoxy(67,y);
            cout<<price;
            delete []line;
            line=new char[sizeof(ifs)];
            ifs>>line;
            y++;
        }
        delete []line;
        line=new char[sizeof(ifs)];
        ifs>>line;
    }
}
if(flag!=1)
{
    cout<<"\n\n\nNot Found...";
}
}

```

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};
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