

```

#include <iostream>

#include<string>

#include<stdlib.h>

#include<fstream>


using namespace std;


void login()
{
    string user_name;
    string password;
    bool loginsuccess=false;

    cout<<"*****" <<endl;
    cout<<"*          *" <<endl;
    cout<<"*   DASH INDUSTRIES   *" <<endl;
    cout<<"*          *" <<endl;
    cout<<"*****" <<endl;
    cout<<"AS ONE FAMILLY.   " <<endl;
    cout<<"www.dash.com      " <<endl;


    do
    {
        cout<<"\n\n~Enter user name: ";
        cin>>user_name;
        cout<<"Enter password: ";
        cin>>password;


        if(user_name=="DASH"&& password=="1995")
        {
            cout<<"\nLOGING SUCCESSFULL....\n\n";
            loginsuccess=true;

```

```

    }

    else

    {

        cout<<"please try agian\n";

    }

}

while(!loginsuccess);
}

void raw_materials_details()

{ cout<<"-----
-----|"<<endl;

    cout<<"|umbrella code |umbrella category |cost per cover from company|cost per frame from company|cost per
thread from company|payment per completed good to worker|market price|"<<endl;

    cout<<"|          |          |          |          |          | (without damage)          |
|"<<endl;

    cout<<"-----|-----|-----|-----|-----|-----
-----|"<<endl;

    cout<<"          |          |          |          |          |
|"<<endl;

    cout<<"|ub1212    | BABY UMBRELLA  |RS:50.00          |RS:50.00          |RS:30.00
|RS:50.00          |RS:300.00  |"<<endl;

    cout<<"|-----|-----|-----|-----|-----|-----
-----|"<<endl;

    cout<<"|lu1313    | LADIES UMBRELLA |RS:100.00          |RS:100.00          |RS:60.00
|RS:100.00          |RS:600.00  |"<<endl;

    cout<<"|-----|-----|-----|-----|-----|-----
-----|"<<endl;

    cout<<"|gu1617    | GENTS UMBRELLA  |RS:125.00          |RS:125.00          |RS:75.00
|RS:125.00          |RS:800.00  |"<<endl;

    cout<<"|-----|-----|-----|-----|-----|-----
-----|"<<endl;

```

```

cout<<"\n\n"<<endl;

cout<<"\n BONUS is only for cluster head outside workers"<<endl;

cout<<"-----|"<<endl;

cout<<"|umbrella code|umbrella category|bonus for one completed good(without damage)|"<<endl;

cout<<"|-----|-----|-----|"<<endl;

cout<<"|bu1212    |BABY UMBRELLA  |RS:5.00                |"<<endl;

cout<<"|-----|-----|-----|"<<endl;

cout<<"|lu1313    |LADIES UMBRELLA |RS:7.00                |"<<endl;

cout<<"|-----|-----|-----|"<<endl;

cout<<"|Gu1617    |GENTS UMBRELLA  |RS:5.00                |"<<endl;

cout<<"|-----|-----|-----|"<<endl;

cout<<"\n\n"<<endl;

}

void read_assumptions()
{
    cout<<"\n\n"<<endl;

    cout<<"-----"<<endl;

    cout<<"|                                |"<<endl;

    cout<<"|An assumption-->Only one thread will be provided for sewing one umbrella. |"<<endl;

    cout<<"|                                |"<<endl;

    cout<<"-----"<<endl;

    cout<<"\n\n"<<endl;

    cout<<"-----|"<<endl;

    cout<<"|                                |"<<endl;

    cout<<"|An assumption-->The company is of the opinion that the goods(umbrella) should be given |"<<endl;

    cout<<"|          in proportion to the raw materials provided.          |"<<endl;

    cout<<"|          As an example:                                |"<<endl;

    cout<<"|          Company will be providing same equal quantity of raw materials such as,|"<<endl;

    cout<<"|          10 frames, 10 pieces of covers and 10 wheels of threads.as a result of |"<<endl;

```

```

cout<<"|           those raw materials the company expect  number of 10 umbrellas from the|"<<endl;
cout<<"|           out side worker.                               |"<<endl;
cout<<"|                                                           |"<<endl;
cout<<"-----| "<<endl;

```

```

    cout<<"* out side worker can get raw materials from company for only maximum 100 umbrellas per month
"<<endl;

```

```

    cout<<"* cluster head outside worker can get raw materials from company for only maximum 3000 umbrellas per
month "<<endl;

```

```

}

```

```

void select_raw_materials_details()

```

```

{

```

```

    char c;

```

```

    cout<<"Do you need to display company raw materials details chart(y/n): "<<endl;

```

```

    cin>>c;

```

```

    if(c=='y')

```

```

    {

```

```

        raw_materials_details();

```

```

    }

```

```

    else

```

```

    {

```

```

        cout<<" "<<endl;

```

```

    }

```

```

}

```

```

class workers

```

```

{ protected:

```

```

    string name,id,month,umbrella_code;

```

```
float
cost_for_rawmaterials,payment_for_this_outside_worker,profit_precentage_from_this_outsource_worker,total_cost
_for_this_outside_order;
```

```
float
reject_precentage_of_this_outsideworker,market_value_of_this_outside_order,profit_amount_from_this_outside_or
der;
```

```
float bonus_for_cluster_head_worker,bonus_for_bu1212,bonus_for_lu1313,bonus_for_gu1617;
```

```
float lost_amount_from_working_capital;
```

```
int valueble_goods;

public:

workers()
{
    cout<<"\n\t                WELLCOME TO OUR PREFORMANCE EVALUATION
SYSTEM "<<<endl;
    cout<<"                ~~~~~~\n\t"<<<endl;
```

```
}
```

```
void input()
{
```

```
cout<<"Enter Worker Name :";
cin>>name;
```

```
cout<<"\nEnter Worker Id  :";
```

```
cin>>id;
```

```
cout<<"\nEnter Month   :";
```

```
cin>>month;
```

```
cout<<"-----  
-----"<<endl;
```

```
//system("CLS");
```

```
}
```

```
virtual void calculation_and_display()=0;//pure virtual function
```

```
void display()
```

```
{
```

```
if(market_value_of_this_outside_order>total_cost_for_this_outside_order)
```

```
{
```

```
cout<<"\nWORKER NAME ::"<<name<<endl;
```

```
cout<<"\nWORKER ID   ::"<<id<<endl;
```

```
cout<<"\nMONTH      ::"<<month<<endl;
```

```
cout<<"\nprofit precentage is::"<<profit_precentage_from_this_outsource_worker;
```

```
cout<<"%"<<endl;
```

```
cout<<"\nreject precentage is ::"<<reject_precentage_of_this_outsideworker;
```

```

        cout<<"% "<<endl;
    }

    else
    {
        cout<<"\nWORKER NAME ::"<<name<<endl;
        cout<<"\nWORKER ID  ::"<<id<<endl;
        cout<<"\nMONTH      ::"<<month<<endl;

        cout<<"\nreject precentage is ::"<<reject_precentage_of_this_outsideworker;
        cout<<"% "<<endl;

        cout<<"\ntotal lost amount of working capital from this out sider RS:
"<<lost_amount_from_working_capital<<endl;

    }

}

}

~workers()
{

}

};

class out_side_worker:public workers
{
public:

```

```
int covers_amount,frames_amount,threads_amount,expected_umbrellas,rejected_umbrellas;
```

```
void input_rawmaterials_and_outsource_order_details()
```

```
{
```

```
    cout<<"\nenter the umbrella code :";
```

```
    cin>>umbrella_code;
```

```
    cout<<"enter the cover amount :";
```

```
    cin>>covers_amount;
```

```
    cout<<"enter the frame amount :";
```

```
    cin>>frames_amount;
```

```
    cout<<"enter the threads amount:";
```

```
    cin>>threads_amount;
```

```
    cout<<"expected umbrellas from this outside worker:";
```

```
    cin>>expected_umbrellas;
```

```
    cout<<"rejected umbrellas amount from this outside worker:";
```

```
    cin>>rejected_umbrellas;
```

```
}
```

```
void calculation_and_display()
```

```
{
```

```
    ofstream outf("performance evaluation sheet for out_side_worker.txt");
```

```
    if(umbrella_code=="bu1212")
```

```
    { reject_precentage_of_this_outsideworker=(rejected_umbrellas*100)/expected_umbrellas;
```

```
        cost_for_rawmaterials=(covers_amount*50)+(frames_amount*50)+(threads_amount*30);
```



```
valueble_goods=expected_umbrellas-rejected_umbrellas;
```

```
payment_for_this_outside_worker=(valueble_goods)*50;
```

```
total_cost_for_this_outside_order=cost_for_rawmaterials+payment_for_this_outside_worker;
```

```
market_value_of_this_outside_order=valueble_goods*300; //market price of bu1212=300
```

```
profit_amount_from_this_outside_order= market_value_of_this_outside_order-  
total_cost_for_this_outside_order;
```

```
lost_amount_from_working_capital=(total_cost_for_this_outside_order-  
market_value_of_this_outside_order);
```

```
if(market_value_of_this_outside_order>total_cost_for_this_outside_order)
```

```
{
```

```
profit_precentage_from_this_outsource_worker=(profit_amount_from_this_outside_order/total_cost_for_this_outside_order)*100;
```

```
if(profit_precentage_from_this_outsource_worker>=25 &&  
reject_precentage_of_this_outsideworker<=30)
```

```
{
```

```
display();
```

```
cout<<"\nPERFORMANCE EVALUATION STATUS = !!! GOOD!!!"<<endl;
```

```
outf<<"WORKER NAME      ::"<<name<<endl;
```

```
outf<<"WORKER ID        ::"<<id<<endl;
```

```
outf<<"MONTH            ::"<<month<<endl;
```

```
outf<<"profit precentage is  ::"<<profit_precentage_from_this_outsource_worker;
```

```
outf<<"%"<<endl;
```

```

        outf<<"reject precentage is  ::"<<reject_precentage_of_this_outsideworker;

        outf<<"% "<<endl;

        outf<<"PREFORMANCE EVALUATION STATUS = !!! GOOD!!!";

    }

    else

    {   display();

        cout<<"\nPREFORMANCE EVALUATION STATE = !!!POOR!!! INDICATING HIGH RISK FOR
COMPANY FINANCIAL HEALTH"<<endl;

        outf<<"WORKER NAME      ::"<<name<<endl;

        outf<<"WORKER ID      ::"<<id<<endl;

        outf<<"MONTH          ::"<<month<<endl;

        outf<<"profit precentage is  ::"<<profit_precentage_from_this_outsourse_worker;

        outf<<"% "<<endl;

        outf<<"reject precentage is  ::"<<reject_precentage_of_this_outsideworker;

        outf<<"% "<<endl;

        outf<<"PREFORMANCE EVALUATION STATE = !!!POOR!!! INDICATING HIGH RISK FOR
COMPANY FINANCIAL HEALTH"<<endl;

    }

}

else

{

    display();

    cout<<"          !!!!! WARNING !!!!!!"<<endl;

    cout<<"THERE ARE NO PROFITS BECASUE DAMAGE PRECENTAGE IS ABOVE 50%"<<endl;

    outf<<"WORKER NAME      ::"<<name<<endl;

    outf<<"WORKER ID      ::"<<id<<endl;

    outf<<"MONTH          ::"<<month<<endl;

    outf<<"reject precentage is  ::"<<reject_precentage_of_this_outsideworker;

    outf<<"% "<<endl;

```

```

        outf<<"total lost amount of working capital from this out sider RS:
"<<lost_amount_from_working_capital<<endl;

        outf<<"          !!!!! WARNING !!!!!!"<<endl;

        outf<<"THERE ARE NO PROFITS BECASUE DAMAGE PRECENTAGE IS ABOVE 50%"<<endl;

    }

}

else if(umbrella_code=="lu1313")
{
    reject_precentage_of_this_outsideworker=(rejected_umbrellas*100)/expected_umbrellas;

    cost_for_rawmaterials=(covers_amount*100)+(frames_amount*100)+(threads_amount*60);

    valueble_goods=expected_umbrellas-rejected_umbrellas;

    payment_for_this_outside_worker=(valueble_goods)*100;

    total_cost_for_this_outside_order=cost_for_rawmaterials+payment_for_this_outside_worker;

    market_value_of_this_outside_order=valueble_goods*600; //market price of lu1313=RS 800

    profit_amount_from_this_outside_order= market_value_of_this_outside_order-
total_cost_for_this_outside_order;

    lost_amount_from_working_capital=(total_cost_for_this_outside_order-
market_value_of_this_outside_order);

    if(market_value_of_this_outside_order>total_cost_for_this_outside_order)
    {

```

```
profit_percentage_from_this_outsource_worker=(profit_amount_from_this_outside_order/total_cost_for_this_outside_order)*100;
```

```
    if(profit_percentage_from_this_outsource_worker>=25 &&
    reject_percentage_of_this_outsideworker<=30)
    {
        display();
        cout<<"\nPERFORMANCE EVALUATION STATUS=!!! GOOD!!!"<<endl;
        outf<<"WORKER NAME      ::"<<name<<endl;
        outf<<"WORKER ID       ::"<<id<<endl;
        outf<<"MONTH          ::"<<month<<endl;
        outf<<"profit percentage is  ::"<<profit_percentage_from_this_outsource_worker;
        outf<<"%"<<endl;
        outf<<"reject percentage is  ::"<<reject_percentage_of_this_outsideworker;
        outf<<"%"<<endl;
        outf<<"PERFORMANCE EVALUATION STATUS = !!! GOOD!!!";
    }
    else
    { display();
        cout<<"\nPERFORMANCE EVALUATION STATE = !!!POOR!!! INDICATING HIGH RISK FOR
    COMPANY FINANCIAL HEALTH"<<endl;
        outf<<"WORKER NAME      ::"<<name<<endl;
        outf<<"WORKER ID       ::"<<id<<endl;
        outf<<"MONTH          ::"<<month<<endl;
        outf<<"profit percentage is  ::"<<profit_percentage_from_this_outsource_worker;
        outf<<"%"<<endl;
        outf<<"reject percentage is  ::"<<reject_percentage_of_this_outsideworker;
        outf<<"%"<<endl;
        outf<<"PERFORMANCE EVALUATION STATE = !!!POOR!!! INDICATING HIGH RISK FOR
    COMPANY FINANCIAL HEALTH"<<endl;
    }
```

```

    }

else
{
    display();

    cout<<"\n          !!!!! WARNING !!!!!!"<<endl;
    cout<<"THERE ARE NO PROFITS BECASUE DAMAGE PRECENTAGE IS ABOVE 50%"<<endl;
    outf<<"WORKER NAME          ::"<<name<<endl;
    outf<<"WORKER ID            ::"<<id<<endl;
    outf<<"MONTH                ::"<<month<<endl;
    outf<<"reject precentage is  ::"<<reject_precentage_of_this_outsideworker;
    outf<<"%"<<endl;

    outf<<"total lost amount of working capital from this out sider RS:
"<<lost_amount_from_working_capital<<endl;
    outf<<"          !!!!! WARNING !!!!!!"<<endl;
    outf<<"THERE ARE NO PROFITS BECASUE DAMAGE PRECENTAGE IS ABOVE 50%"<<endl;
}
}

else if(umbrella_code=="gu1617")

{
    reject_precentage_of_this_outsideworker=(rejected_umbrellas*100)/expected_umbrellas;

    cost_for_rawmaterials=(covers_amount*125)+(frames_amount*125)+(threads_amount*75);

    valueble_goods=expected_umbrellas-rejected_umbrellas;

    payment_for_this_outside_worker=(valueble_goods)*125;

    total_cost_for_this_outside_order=cost_for_rawmaterials+payment_for_this_outside_worker;

    market_value_of_this_outside_order=valueble_goods*800; //market price of lu1313=RS 800

```

```
profit_amount_from_this_outside_order= market_value_of_this_outside_order-
total_cost_for_this_outside_order;
```

```
lost_amount_from_working_capital=(total_cost_for_this_outside_order-
market_value_of_this_outside_order);
```

```
if(market_value_of_this_outside_order>total_cost_for_this_outside_order)
{
```

```
profit_percentage_from_this_outsource_worker=(profit_amount_from_this_outside_order/total_cost_for_this_outside_order)*100;
```

```
if(profit_percentage_from_this_outsource_worker>=35.75 &&
reject_percentage_of_this_outsideworker<=30)
```

```
{ display();
```

```
cout<<"\nPREFORMANCE EVALUATION STATUS=!!! GOOD PERFORMANCE!!!"<<endl;
```

```
outf<<"WORKER NAME      ::"<<name<<endl;
```

```
outf<<"WORKER ID        ::"<<id<<endl;
```

```
outf<<"MONTH            ::"<<month<<endl;
```

```
outf<<"profit percentage is  ::"<<profit_percentage_from_this_outsource_worker;
```

```
outf<<"%"<<endl;
```

```
outf<<"reject percentage is  ::"<<reject_percentage_of_this_outsideworker;
```

```
outf<<"%"<<endl;
```

```
outf<<"PREFORMANCE EVALUATION STATUS = !!! GOOD!!!";
```

```
}
```

```
else
```

```
{
```

```
display();
```

```
cout<<"\nPREFORMANCE EVALUATION STATE = !!!POOR!!! INDICATING HIGH RISK FOR
COMPANY FINANCIAL HEALTH"<<endl;
```

```
outf<<"WORKER NAME      ::"<<name<<endl;
```

```

        outf<<"WORKER ID      ::"<<id<<endl;
        outf<<"MONTH          ::"<<month<<endl;
        outf<<"profit precentage is  ::"<<profit_precentage_from_this_outsource_worker;
        outf<<"% "<<endl;
        outf<<"reject precentage is  ::"<<reject_precentage_of_this_outsideworker;
        outf<<"% "<<endl;
        outf<<"PREFORMANCE EVALUATION STATE = !!!POOR!!! INDICATING HIGH RISK FOR
COMPANY FINANCIAL HEALTH"<<endl;
    }
}
else
{
    display();
    cout<<"          !!!!! WARNING !!!!!!"<<endl;
    cout<<"THERE ARE NO PROFITS BECASUE DAMAGE PRECENTAGE IS ABOVE 50%"<<endl;
    outf<<"WORKER NAME      ::"<<name<<endl;
    outf<<"WORKER ID      ::"<<id<<endl;
    outf<<"MONTH          ::"<<month<<endl;
    outf<<"reject precentage is  ::"<<reject_precentage_of_this_outsideworker;
    outf<<"% "<<endl;
    outf<<"total lost amount of working capital from this out sider RS:
"<<lost_amount_from_working_capital<<endl;
    outf<<"          !!!!! WARNING !!!!!!"<<endl;
    outf<<"THERE ARE NO PROFITS BECASUE DAMAGE PRECENTAGE IS ABOVE 50%"<<endl;
}
}

else
{
    cout<<"\n INVALID UMBRELLA CODE CHECK AGAIN!!!"<<endl;
}

```

```
outf.close();
```

```
}
```

```
};
```

```
class cluster_head_worker:public workers
```

```
{
```

```
public:
```

```
int covers_amount,frames_amount,threads_amount,expected_umbrellas,rejected_umbrellas;
```

```
void input_rawmaterials_and_outsource_order_details()
```

```
{
```

```
cout<<"\nenter the umbrella code :";
```

```
cin>>umbrella_code;
```

```
cout<<"enter the cover amount :";
```

```
cin>>covers_amount;
```

```
cout<<"enter the frame amount :";
```

```
cin>>frames_amount;
```

```
cout<<"enter the threads amount:";
```

```
cin>>threads_amount;
```

```
cout<<"expected umbrellas from this outside worker:";
```

```
cin>>expected_umbrellas;
```

```
cout<<"rejected umbrellas amount from this outside worker:";
```

```
cin>>rejected_umbrellas;
```

```
}
```

```
void setbonus(float x,float y,float z)
```

```
{
```

```
bonus_for_bu1212=x;
```



```

bonus_for_lu1313=y;
bonus_for_gu1617=z;
}

void calculation_and_display()
{
ofstream outf("performance evaluation sheet for cluster_head_outside_worker.txt");

if(umbrella_code=="bu1212")
{ reject_precentage_of_this_outsideworker=(rejected_umbrellas*100)/expected_umbrellas;

cost_for_rawmaterials=(covers_amount*50)+(frames_amount*50)+(threads_amount*30);

valueble_goods=expected_umbrellas-rejected_umbrellas;

bonus_for_cluster_head_worker=valueble_goods*bonus_for_bu1212;//BONUS AMOUNT ONLY FOR
CLUSTER_HEAD OUTSIDE WORKERS

payment_for_this_outside_worker=(valueble_goods)*50;

total_cost_for_this_outside_order=cost_for_rawmaterials+payment_for_this_outside_worker;

market_value_of_this_outside_order=valueble_goods*300; //market price of bu1212=300

profit_amount_from_this_outside_order= market_value_of_this_outside_order-
total_cost_for_this_outside_order;

lost_amount_from_working_capital=(total_cost_for_this_outside_order-
market_value_of_this_outside_order);

```

```

        if(market_value_of_this_outside_order>total_cost_for_this_outside_order)
        {

profit_percentage_from_this_outsource_worker=(profit_amount_from_this_outside_order/total_cost_for_this_outside_order)*100;

        if(profit_percentage_from_this_outsource_worker>=41.1 &&
reject_percentage_of_this_outsideworker<=30)
        {
            display();

            cout<<"\nPERFORMANCE EVALUATION STATUS = !!! GOOD!!!"<<endl;

            cout<<"\nBONUS AMOUNT FOR THIS CLUSTER_HEAD OUTSIDE WORKER RS
:"<<bonus_for_cluster_head_worker<<endl;

            outf<<"WORKER NAME      ::"<<name<<endl;

            outf<<"WORKER ID      ::"<<id<<endl;

            outf<<"MONTH          ::"<<month<<endl;

            outf<<"profit percentage is  ::"<<profit_percentage_from_this_outsource_worker;

            outf<<"%"<<endl;

            outf<<"reject percentage is  ::"<<reject_percentage_of_this_outsideworker;

            outf<<"%"<<endl;

            outf<<"PERFORMANCE EVALUATION STATUS = !!! GOOD!!!"<<endl;

            outf<<"\nBONUS AMOUNT FOR THIS CLUSTER_HEAD OUTSIDE WORKER RS
:"<<bonus_for_cluster_head_worker<<endl;

        }

        else

        {   display();

            cout<<"\nPERFORMANCE EVALUATION STATE = !!!POOR!!! INDICATING HIGH RISK FOR
COMPANY FINANCIAL HEALTH"<<endl;

            cout<<"\nBONUS AMOUNT FOR THIS CLUSTER_HEAD OUTSIDE WORKER RS
:"<<bonus_for_cluster_head_worker<<endl;

            outf<<"WORKER NAME      ::"<<name<<endl;

            outf<<"WORKER ID      ::"<<id<<endl;

            outf<<"MONTH          ::"<<month<<endl;

```

```

        outf<<"profit precentage is  ::"<<profit_precentage_from_this_outsource_worker;

        outf<<"% "<<endl;

        outf<<"reject precentage is  ::"<<reject_precentage_of_this_outsideworker;

        outf<<"% "<<endl;

        outf<<"PREFORMANCE EVALUATION STATE = !!!POOR!!! INDICATING HIGH RISK FOR
COMPANY FINANCIAL HEALTH"<<endl;

        outf<<"\nBONUS AMOUNT FOR THIS CLUSTER_HEAD OUTSIDE WORKER RS
:"<<bonus_for_cluster_head_worker<<endl;

    }

}

else

{   display();

    cout<<"          !!!!! WARNING !!!!!!"<<endl;

    cout<<"THERE ARE NO PROFITS BECASUE DAMAGE PRECENTAGE IS ABOVE 50%"<<endl;

    outf<<"WORKER NAME          ::"<<name<<endl;

    outf<<"WORKER ID           ::"<<id<<endl;

    outf<<"MONTH              ::"<<month<<endl;

    outf<<"reject precentage is  ::"<<reject_precentage_of_this_outsideworker;

    outf<<"% "<<endl;

    outf<<"          !!!!! WARNING !!!!!!"<<endl;

    outf<<"THERE ARE NO PROFITS BECASUE DAMAGE PRECENTAGE IS ABOVE 50%"<<endl;

    outf<<"total lost amount of working capital from this out sider RS:
"<<lost_amount_from_working_capital<<endl;

    }

}

else if(umbrella_code=="lu1313")

{

    reject_precentage_of_this_outsideworker=(rejected_umbrellas*100)/expected_umbrellas;

    cost_for_rawmaterials=(covers_amount*100)+(frames_amount*100)+(threads_amount*60);

    valueble_goods=expected_umbrellas-rejected_umbrellas;

```

```

payment_for_this_outside_worker=(valueble_goods)*100;

total_cost_for_this_outside_order=cost_for_rawmaterials+payment_for_this_outside_worker;

market_value_of_this_outside_order=valueble_goods*600; //market price of lu1313=RS 800

profit_amount_from_this_outside_order= market_value_of_this_outside_order-
total_cost_for_this_outside_order;

bonus_for_cluster_head_worker=valueble_goods*bonus_for_lu1313;

lost_amount_from_working_capital=(total_cost_for_this_outside_order-
market_value_of_this_outside_order);

if(market_value_of_this_outside_order>total_cost_for_this_outside_order)
{

profit_precentage_from_this_outsource_worker=(profit_amount_from_this_outside_order/total_cost_for_this_outside_order)*100;

if(profit_precentage_from_this_outsource_worker>=41.1 &&
reject_precentage_of_this_outsideworker<=30)
{
display();
cout<<"\nPERFORMANCE EVALUATION STATUS=!!! GOOD!!!"<<endl;
cout<<"\nBONUS AMOUNT FOR THIS CLUSTER_HEAD OUTSIDE WORKER RS
:"<<bonus_for_cluster_head_worker<<endl;
outf<<"WORKER NAME      ::"<<name<<endl;
outf<<"WORKER ID       ::"<<id<<endl;
outf<<"MONTH           ::"<<month<<endl;

```

```

        outf<<"profit precentage is  ::"<<profit_precentage_from_this_outsource_worker;
        outf<<"% "<<endl;

        outf<<"reject precentage is  ::"<<reject_precentage_of_this_outsideworker;
        outf<<"% "<<endl;

        outf<<"PREFORMANCE EVALUATION STATUS = !!! GOOD!!!";

        outf<<"\nBONUS AMOUNT FOR THIS CLUSTER_HEAD OUTSIDE WORKER RS
:"<<bonus_for_cluster_head_worker<<endl;

    }

    else

    {   display();

        cout<<"\nPREFORMANCE EVALUATION STATE = !!!POOR!!! INDICATING HIGH RISK FOR
COMPANY FINANCIAL HEALTH"<<endl;

        outf<<"\nBONUS AMOUNT FOR THIS CLUSTER_HEAD OUTSIDE WORKER RS
:"<<bonus_for_cluster_head_worker<<endl;

        outf<<"WORKER NAME      ::"<<name<<endl;
        outf<<"WORKER ID      ::"<<id<<endl;
        outf<<"MONTH          ::"<<month<<endl;

        outf<<"profit precentage is  ::"<<profit_precentage_from_this_outsource_worker;
        outf<<"% "<<endl;

        outf<<"reject precentage is  ::"<<reject_precentage_of_this_outsideworker;
        outf<<"% "<<endl;

        outf<<"PREFORMANCE EVALUATION STATE = !!!POOR!!! INDICATING HIGH RISK FOR
COMPANY FINANCIAL HEALTH"<<endl;

        outf<<"\nBONUS AMOUNT FOR THIS CLUSTER_HEAD OUTSIDE WORKER RS
:"<<bonus_for_cluster_head_worker<<endl;

    }

}

else

{   display();

    cout<<"          !!!!! WARNING !!!!!!"<<endl;

    cout<<"THERE ARE NO PROFITS BECASUE DAMAGE PRECENTAGE IS ABOVE 50%"<<endl;

    outf<<"WORKER NAME      ::"<<name<<endl;

    outf<<"WORKER ID      ::"<<id<<endl;

```

```

outf<<"MONTH          ::"<<month<<endl;

outf<<"reject precentage is  ::"<<reject_precentage_of_this_outsideworker;

outf<<"%"<<endl;

outf<<"          !!!!! WARNING !!!!!!"<<endl;

outf<<"THERE ARE NO PROFITS BECASUE DAMAGE PRECENTAGE IS ABOVE 50%"<<endl;

outf<<"total lost amount of working capital from this out sider RS:
"<<lost_amount_from_working_capital<<endl;
    }
}

else if(umbrella_code=="gu1617")

{

reject_precentage_of_this_outsideworker=(rejected_umbrellas*100)/expected_umbrellas;

cost_for_rawmaterials=(covers_amount*125)+(frames_amount*125)+(threads_amount*75);

valueble_goods=expected_umbrellas-rejected_umbrellas;

bonus_for_cluster_head_worker=valueble_goods*bonus_for_gu1617;

payment_for_this_outside_worker=(valueble_goods)*125;

total_cost_for_this_outside_order=cost_for_rawmaterials+payment_for_this_outside_worker;

market_value_of_this_outside_order=valueble_goods*800; //market price of lu1313=RS 800

profit_amount_from_this_outside_order= market_value_of_this_outside_order-
total_cost_for_this_outside_order;

lost_amount_from_working_capital=(total_cost_for_this_outside_order-
market_value_of_this_outside_order);

```

```

        if(market_value_of_this_outside_order>total_cost_for_this_outside_order)
        {

profit_percentage_from_this_outsource_worker=(profit_amount_from_this_outside_order/total_cost_for_this_outside_order)*100;


        if(profit_percentage_from_this_outsource_worker>=50.5 &&
reject_percentage_of_this_outsideworker<=30)
        {   display();

            cout<<"\nPERFORMANCE EVALUATION STATUS=!!! GOOD PERFORMANCE!!!"<<endl;

            cout<<"\nBONUS AMOUNT FOR THIS CLUSTER_HEAD OUTSIDE WORKER RS
:"<<bonus_for_cluster_head_worker<<endl;

            outf<<"WORKER NAME      ::"<<name<<endl;
            outf<<"WORKER ID      ::"<<id<<endl;
            outf<<"MONTH          ::"<<month<<endl;
            outf<<"profit percentage is  ::"<<profit_percentage_from_this_outsource_worker;
            outf<<"%"<<endl;
            outf<<"reject percentage is  ::"<<reject_percentage_of_this_outsideworker;
            outf<<"%"<<endl;
            outf<<"PERFORMANCE EVALUATION STATUS = !!! GOOD!!!";
            outf<<"\nBONUS AMOUNT FOR THIS CLUSTER_HEAD OUTSIDE WORKER RS
:"<<bonus_for_cluster_head_worker<<endl;
        }

        else
        {

            display();

            cout<<"\nPERFORMANCE EVALUATION STATE = !!!POOR!!! INDICATING HIGH RISK FOR
COMPANY FINANCIAL HEALTH"<<endl;

            cout<<"\nBONUS AMOUNT FOR THIS CLUSTER_HEAD OUTSIDE WORKER RS
:"<<bonus_for_cluster_head_worker<<endl;

            outf<<"WORKER NAME      ::"<<name<<endl;
            outf<<"WORKER ID      ::"<<id<<endl;
            outf<<"MONTH          ::"<<month<<endl;

```

```

        outf<<"profit precentage is  ::"<<profit_precentage_from_this_outsource_worker;

        outf<<"% "<<endl;

        outf<<"reject precentage is  ::"<<reject_precentage_of_this_outsideworker;

        outf<<"% "<<endl;

        outf<<"PREFORMANCE EVALUATION STATE = !!!POOR!!! INDICATING HIGH RISK FOR
COMPANY FINANCIAL HEALTH"<<endl;

        outf<<"\nBONUS AMOUNT FOR THIS CLUSTER_HEAD OUTSIDE WORKER RS
:"<<bonus_for_cluster_head_worker<<endl;

    }

}

else

{  display();

    cout<<"          !!!!! WARNING !!!!!!"<<endl;

    cout<<"THERE ARE NO PROFITS BECASUE DAMAGE PRECENTAGE IS ABOVE 50%"<<endl;

    outf<<"WORKER NAME          ::"<<name<<endl;

    outf<<"WORKER ID            ::"<<id<<endl;

    outf<<"MONTH                ::"<<month<<endl;

    outf<<"reject precentage is  ::"<<reject_precentage_of_this_outsideworker;

    outf<<"% "<<endl;

    outf<<"          !!!!! WARNING !!!!!!"<<endl;

    outf<<"THERE ARE NO PROFITS BECASUE DAMAGE PRECENTAGE IS ABOVE 50%"<<endl;

    outf<<"total lost amount of working capital from this out sider RS:
"<<lost_amount_from_working_capital<<endl;

    }

}

else

{

    cout<<"\n INVALID UMBRELLA CODE CHECK AGAIN!!!"<<endl;

}

outf.close();

```



```
}  
  
};
```

```
int main()  
{  
    login();  
  
    select_raw_materials_details();  
    read_assumptions();  
  
    workers *a;  
    cluster_head_worker obj;  
  
    obj.input();
```

```
obj.input_rawmaterials_and_outsource_order_details();
```

```
obj.setbonus(5,7,10);
```

```
a=&obj;
```

```
a->calculation_and_display();
```

```
}
```