ASSIGNMENT NO 3

- **Implementation of constructor and member function both**

```
#include<iostream>
#include<stdlib.h>
using namespace std;
class engineering_stuff
{
public:
   char name[10];
   int quantity,price,total_price;
   void admin_input()
   {
     cout<<"enter the name of stuff"<<endl;
     cin>>name;
     cout<<"enter the price of stuff"<<endl;
     cin>>price;
     cout<<"enter the quantity of stuff"<<endl;
     cin>>quantity;

   };
   void user_input()
   {
     cout<<"enter the name of stuff"<<endl;
     cin>>name;
     cout<<"enter the price of stuff"<<endl;
     cin>>price;
```

```
      cout<<"enter the quantity of stuff"<<endl;
      cin>>quantity;

   };
    void admin_display()
   {
      total_price=price*quantity;

cout<<"\t"<<name<<"\t\t"<<quantity<<"\t\t"<<price<<"\t\t"<<total_price<<en
dl;

   };
    void user_display()
   {
      total_price=price*quantity;

cout<<"\t"<<name<<"\t\t"<<quantity<<"\t\t"<<price<<"\t\t"<<total_price<<en
dl;

   }
};
int main()
{
      int n,ch;
      float grand_total=0;
      engineering_stuff s[20];
 while(1)
```

```
{
      cout<<"\n\n\t1.ADMIN"<<endl;
      cout<<"\t2.USER"<<endl;
      cout<<"\t3.EXIT"<<endl;
      cout<<"\nENTER YOUR CHOICE:-";
      cin>>ch;

  switch(ch)
  {
         case 1:
   {

      cout<<"enter the number of stuff\n";
      cin>>n;
         for(int i=0;i<n;i++)
         {
          s[i].admin_input();
         }
           cout<<"\t\t\t----------DATA----------"<<endl;

cout<<"\tstuff_name\t"<<"\tquantity\t"<<"price\t\t"<<"total_price"<<endl;

cout<<"\t**********
**********"<<endl;
         for(int i=0;i<n;i++)
         {
           s[i].admin_display();
```

```
            grand_total=grand_total+s[i].total_price;

cout<<"\t*************************************************************
**********"<<endl;
            if(i==(n-1))
             {
               cout<<"\n\t\t\t\t*****************";
               cout<<"\n\t\t\t\tGrand Total="<<grand_total;
               cout<<"\n\t\t\t\t*****************\n";
             }
           }
           break;
    }
    case 2:
       {
             for(int i=0;i<n;i++)
           {
            s[i].user_input();
           }
            cout<<"\t\t\t----------------------DATA-------------------------"<<endl;

cout<<"\tstuff_name\t"<<"\tquantity\t"<<"price\t\t"<<"total_price"<<endl;

cout<<"\t*************************************************************
**********"<<endl;
           for(int i=0;i<n;i++)
           {
             s[i].user_display();
```

```
            grand_total=grand_total+s[i].total_price;

cout<<"\t**********************************************************
**********"<<endl;
            if(i==(n-1))
             {
               cout<<"\n\t\t\t\t*****************";
               cout<<"\n\t\t\t\tGrand Total="<<grand_total;
               cout<<"\n\t\t\t\t*****************\n";
             }
           }
           break;


       }
    case 3:
       break;

 }
}
}
```

OUTPUT:-

```
1 ADMIN
2 USER
3 EXIST
ENTER THE CHOISE:-1
        enter the number of stuff
        3
        enter the name of stuff
        keyboard
        enter the price of stuff
        500
        enter the quantity of stuff
        30
        enter the name of stuff
        motherboard
        enter the price of stuff
        1200
        enter the quantity of stuff
        5
        enter the name of stuff
        wirlessmouse
        enter the price of stuff
        500
        enter the quantity of stuff
        6
```

----------DATA----------

stuff_name	quantity	price	total_price
keyboard	30	500	15000
motherboard	5	1200	6000
wirlessmouse	6	500	3000

****

Grand Total=24000

****