```
#include<iostream>
using namespace std;
class Student{
    private:
        int admno;
        char sname[20];
        float eng,math,science,total;
        float ctotal(){
             total = eng+math+science;
             return total;
        }
    public:
        void takeData(){
             cout<<"Enter admno: ";</pre>
             cin>>admno;
             cout<<endl<<"Enter student's name: ";</pre>
             cin>>sname;
             cout<<endl<<"Enter marks: "<<endl;</pre>
             cin>>eng>>math>>science;
         }
        void showData(){
             cout<<"The Admission number "<<admno;</pre>
             cout<<" "<<sname;</pre>
             cout<<endl<<"Marks of English, Math and Science respectively are</pre>
"<<eng<<" "<<math<<" "<<science<<endl;</pre>
             cout<<"The total marks is "<<ctotal();</pre>
         }
};
int main(){
    Student s1;
    s1.takeData();
    s1.showData();
    return 0;
```

```
Question-2.
#include<iostream>
using namespace std;
class Batsman{
    private:
        int bcode;
        char bname[20];
        int innings, notout, runs;
        int batavg;
        int calavg(){
             batavg = runs/(innings-notout);
            return batavg;
    public:
        void readData(){
            while(true)
                 cout<<"Enter Code: "<<endl;</pre>
                 cin>>bcode;
                 if(bcode>999 && bcode <10000){</pre>
                     break;
                 else{
                     cout<<"Invalid CODE"<<endl;</pre>
             }
             cout<<"Enter batsman name: "<<endl;</pre>
             cin>>bname;
             cout<<"Enter innings, notout,runs:"<<endl;</pre>
             cin>>innings>>notout>>runs;
             calavg();
        }
        void displayData(){
            cout<<"Displaying data"<<endl;</pre>
             cout<<bcode<<"\n"<<bname<<"\n"<<innings<<"\n"<<notout<<"\n"<<runs</pre>
<"\n"<<batavg<<endl;
};
int main(){
    Batsman b1;
    b1.readData();
    b1.displayData();
```

```
return 0
```

```
#include<iostream>
using namespace std;
class Test{
   private:
        int test_code;
        string description;
        int Nocandidate, centerReqd, no_of_center;
        int calcnctr()
        {
            no_of_center = (Nocandidate/100) + 1;
           return no_of_center;
   public:
        void schedule(){
            cout<<"Enter details: "<<endl;</pre>
            cin>>test_code>>description>>centerReqd>>Nocandidate;
            calcnctr();
        }
        void disptest(){
            cout<<"**********************The details are</pre>
cout<<test_code<<endl;</pre>
            cout<<description<<endl;</pre>
            cout<<Nocandidate<<endl;</pre>
            cout<<centerReqd<<endl;</pre>
            cout<<no_of_center<<endl;</pre>
        }
};
int main(){
   Test t1;
    t1.schedule();
   t1.disptest();
```

```
Question-4.
#include<iostream>
using namespace std;
class Qatar{
   private:
        int flight_no;
        string destination;
        float distance, fuel;
        void cal_fuel(){
            if(distance<=1000){</pre>
                fuel = 500;
            else if (distance>1000 && distance<=2000){</pre>
                fuel = 1100;
            }
            else{
                fuel = 2200;
        }
    public:
        void feed_info(){
            cout<<"Enter details: "<<endl;</pre>
            cin>>flight_no>>destination>>distance;
            cal_fuel();
        }
        void show_info(){
            cout<<"The Details are "<<endl;</pre>
            cout<<"Flight number: "<<flight_no<<endl;</pre>
            cout<<"Destination: "<<destination<<endl;</pre>
            cout<<"Distance: "<<distance<<endl;</pre>
            cout<<"Fuel: "<<fuel;</pre>
        }
};
int main(){
    Qatar q1;
    q1.feed_info();
    q1.show_info();
```

```
Question-5.
#include<iostream>
using namespace std;
class Book{
    private:
        int book_no, no_of_copies;
        char book_title[20];
        float price, total;
        void total_cost(int n){
            total = n*price;
            cout<<"The total cost is "<<total;</pre>
        }
    public:
        void input(){
            cout<<"Enter details: "<<endl;</pre>
            cin>> book_no>> book_title>> price;
        }
        void purchase(){
            cout<<"Enter number of copies: ";</pre>
            cin>>no_of_copies;
            total_cost(no_of_copies);
        }
};
int main(){
    Book b1;
    b1.input();
    b1.purchase();
    return 0;
```

```
#include<iostream>
using namespace std;
class Report{
    private:
        int adno;
        char name[20];
        float marks[5],average,sum=0;
        void GETAVG(){
            for(int i=0;i<5;i++){</pre>
                 sum+= marks[i];
            average = sum/5;
        }
    public:
        void read_info(){
            cout<< "Enter details: ";</pre>
            cin>>adno>>name;
            cout<<endl<<"Enter marks:";</pre>
             for(int i=0;i<5;i++){</pre>
                 cin>>marks[i];
            GETAVG();
        }
        void display_info(){
            cout<<"The output is:"<<endl;</pre>
            cout<<adno<<endl;</pre>
            cout<<name<<endl;</pre>
            cout<<"The marks are: ";</pre>
            for(int i=0;i<5;i++){</pre>
                 cout<<marks[i]<<endl;</pre>
            cout<<"The average is "<<average;</pre>
        }
};
int main(){
    Report r1;
    r1.read_info();
    r1.display_info();
```