Q1

```
#include<iostream>
using namespace std;
class Test{
    int TestCode;
    string description;
    int NoCandidate;
    int CenterRead;

    int calcntr(){
        CenterRead = (NoCandidate/100)+1;
        return 0;
    }

    public :
    void schedule(){
        cout<<"Enter test code :"<<endl;
        cin>>TestCode;
        cout<<"Enter description :"<<endl;
        cin>>description;
        cout<<"Enter number of candidates :"<<endl;
        cin>>NoCandidate;
        calcntr();
    }
    void display(){
        cout<<"Test Code :"<<TestCode<<endl;
        cout<<"Description :"<<description<<endl;
        cout<<"No Candidate :"<<NoCandidate<<endl;
        cout<<"Center Read :"<<CenterRead<<endl;
    }
};

int main() {
    Test obj;
    obj.schedule();
    obj.display();
    return 0;
}
```

Q2

```cpp
#include<iostream>
using namespace std;
class Batsman{
    private:
        int bcode;
        char bname[20];
        int innings, notout, runs;
        float batavg;
        float calcavg(){
            batavg = runs/(innings-notout);
            return batavg;
        }
    public:
    void readData(){

        while(true){
            cout<<"Enter bcode: ";
            cin>>bcode;
            if(bcode>999 && bcode<10000){
                break;
            }
        }
        cout<<"Enter name: ";
        cin>>bname;
        cout<<"Enter innnings: ";
        cin>>innings;
        cout<<"Enter notout: ";
        cin>>notout;
        cout<<"Enter runs: ";
        cin>>runs;
    }
    void displayData(){
        cout<<"bcode: "<<bcode<<endl;
        cout<<"name: "<<bname<<endl;
        cout<<"innings: "<<innings<<endl;
        cout<<"notout: "<<notout<<endl;
        cout<<"runs: "<<runs<<endl;
        cout<<"Your average is: "<<calcavg()<<endl;
    }

};
int main(){
    Batsman b;
    b.readData();
    b.displayData();
    return 0;
}
```

Q3.

```
#include<iostream>
using namespace std;
class Test{
    int TestCode;
    string description;
    int NoCandidate;
    int CenterRead;

    int calcntr(){
        CenterRead = (NoCandidate/100)+1;
        return 0;
    }

    public :
    void schedule(){
        cout<<"Enter test code :"<<endl;
        cin>>TestCode;
        cout<<"Enter description :"<<endl;
        cin>>description;
        cout<<"Enter number of candidates :"<<endl;
        cin>>NoCandidate;
        calcntr();
    }
    void display(){
        cout<<"Test Code :"<<TestCode<<endl;
        cout<<"Description :"<<description<<endl;
        cout<<"No Candidate :"<<NoCandidate<<endl;
        cout<<"Center Read :"<<CenterRead<<endl;
    }
};

int main() {
    Test obj;
    obj.schedule();
    obj.display();
    return 0;
}
```

Q4.

```
#include<iostream>
using namespace std;
class MyClass{
    private:
        int flightNO;
        string destination;
        float distance;
        float fuel;
        int calfuel(){
            if(distance<=1000){
                fuel=500;
            }
            else if(distance>100 && distance<=2000){
                fuel=1100;
            }
            else{
                fuel=2200;
            }
            return fuel;
        }

    public:
        void feedInfo(){
            cout<<"Enter flight no: "<<endl;
            cin>>flightNO;
            cout<<"Enter destination: "<<endl;
            cin>>destination;
            cout<<"Enter distance: "<<endl;
            cin>>distance;
            cout<<"Your fuel will be: "<<calfuel();
        }

};
int main(){
    MyClass obj;
    obj.feedInfo();
    return 0;
}
```

Q5.

```
#include<iostream>
using namespace std;
class Book{
    private:
        int bookno;
        char title[20];
        float price;

        float total_cost(int n){
            int total =  price * n;
            return total;
        }

    public:
        void input(){
            cout<<"Enter title of book: "<<endl;
            cin>>title;
            cout<<"Enter the price of the book: "<<endl;
            cin>>price;
        }
        void purchase(){
            cout<<"Enter no of books: "<<endl;
            cin>>bookno;

            cout<<"Total cost of all the books: "<<total_cost(bookno);
        }

};
int main(){
    Book obj;
    obj.input();
    obj.purchase();
    return 0;
}
```

Q6.

```
#include<iostream>
using namespace std;
class Report{
    private:
        int adno;
        char name[20];
        float marks[5];
        int total;
        int average;
        void getavg(){
            for(int i=0; i<5; i++){
                total += marks[i];
            }
            average = total/5;
            cout<<"Average of marks: "<<average<<endl;
        }

    public:
        void readinfo(){

            while(true){
            cout<<"Enter adno: ";
            cin>>adno;
            if(adno>999 && adno<10000){
                break;
            }
            }
            cout<<"Enter the name: "<<endl;
            cin>>name;
            cout<<"Enter five elements of an array: "<<endl;
            for(int i=0; i<5; i++){
                cin>>marks[i];
            }
            getavg();
        }
        void displayinfo(){
            cout<<"The value of adno: "<<adno<<endl;
            cout<<"The value of name: "<<name<<endl;
            for(int i=0; i<5; i++){
                cout<<"The value of "<<i+1<<"th subject is "<<marks[i]<<endl;
            }
        }

};
int main(){
    Report obj;
    obj.readinfo();
```

```
    obj.displayinfo();
    return 0;
}
```