Question-1.

#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: ";

            cin>>admno;

            cout<<endl<<"Enter student's name: ";

            cin>>sname;

            cout<<endl<<"Enter marks: "<<endl;

            cin>>eng>>math>>science;

        }

*void* showData(){

            cout<<"The Admission number "<<admno;

            cout<<" "<<sname;

            cout<<endl<<"Marks of English, Math and Science respectively are "<<eng<<" "<<math<<" "<<science<<endl;

            cout<<"The total marks is "<<ctotal();

        }

};

*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;

                cin>>bcode;

                if(bcode>999 && bcode <10000){

                    break;

                }

                else{

                    cout<<"Invalid CODE"<<endl;

                }

            }

            cout<<"Enter batsman name: "<<endl;

            cin>>bname;

            cout<<"Enter innings, notout,runs:"<<endl;

            cin>>innings>>notout>>runs;

            calavg();

        }

*void* displayData(){

            cout<<"Displaying data"<<endl;

            cout<<bcode<<"\n"<<bname<<"\n"<<innings<<"\n"<<notout<<"\n"<<runs<<"\n"<<batavg<<endl;

        }

};

*int* main(){

    Batsman b1;

    b1.readData();

    b1.displayData();

    return 0;

}

Question-3.

#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;

            cin>>test\_code>>description>>centerReqd>>Nocandidate;

            calcnctr();

        }

*void* disptest(){

            cout<<"\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*The details are \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"<<endl;

            cout<<test\_code<<endl;

            cout<<description<<endl;

            cout<<Nocandidate<<endl;

            cout<<centerReqd<<endl;

            cout<<no\_of\_center<<endl;

        }

};

*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){

                fuel = 500;

            }

            else if (distance>1000 && distance<=2000){

                fuel = 1100;

            }

            else{

                fuel = 2200;

            }

        }

*public:*

*void* feed\_info(){

            cout<<"Enter details: "<<endl;

            cin>>flight\_no>>destination>>distance;

            cal\_fuel();

        }

*void* show\_info(){

            cout<<"\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"<<endl;

            cout<<"The Details are "<<endl;

            cout<<"Flight number: "<<flight\_no<<endl;

            cout<<"Destination: "<<destination<<endl;

            cout<<"Distance: "<<distance<<endl;

            cout<<"Fuel: "<<fuel;

        }

};

*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;

        }

*public:*

*void* input(){

            cout<<"Enter details: "<<endl;

            cin>> book\_no>> book\_title>> price;

        }

*void* purchase(){

            cout<<"Enter number of copies: ";

            cin>>no\_of\_copies;

            total\_cost(no\_of\_copies);

        }

};

*int* main(){

    Book b1;

    b1.input();

    b1.purchase();

    return 0;

}

Question-6.

#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++){

                sum+= marks[i];

            }

            average = sum/5;

        }

*public:*

*void* read\_info(){

            cout<<"Enter details: ";

            cin>>adno>>name;

            cout<<endl<<"Enter marks:";

            for(*int* i=0;i<5;i++){

                cin>>marks[i];

            }

            GETAVG();

        }

*void* display\_info(){

            cout<<"\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"<<endl;

            cout<<"The output is:"<<endl;

            cout<<adno<<endl;

            cout<<name<<endl;

            cout<<"The marks are: ";

            for(*int* i=0;i<5;i++){

                cout<<marks[i]<<endl;

            }

            cout<<"The average is "<<average;

        }

};

*int* main(){

    Report r1;

    r1.read\_info();

    r1.display\_info();

}