**Assignment of Classes and Objects**

1. Define a class student with the following specification  
   **Private members**

admno integer  
sname a group of characters  
eng. math, science float  
total float  
ctotal() a function to calculate eng + math + science with float return type.  
**Public member**  
Takedata() Function to accept values for admno, sname, eng, science and

invoke ctotal() to calculate total.  
Showdata() Function to display all the data members on the screen.

1. Define a class batsman with the following specifications:  
   **Private members:**  
   bcode integer  
   bname a group of characters  
   innings, notout, runs integer type  
   batavg it is calculated according to the formula i.e. **batavg =runs/(innings-notout)**calcavg() Function to compute batavg  
   **Public members:**  
   readdata() Function toaccept value from bcode, name, innings, notout and invoke the function calcavg()  
   displaydata() Function to display the data members on the screen.
2. Define a class TEST in with following description:  
   **Private Members**  
   TestCode of type integer  
   Description of type string  
   NoCandidate of type integer  
   CenterReqd (number of centers required) of type integer  
   A member function CALCNTR() to calculate and return the number of centers as  
   (NoCandidates/100+1)  
   **Public Members**   
   - A function SCHEDULE() to allow user to enter values for TestCode, Description, NoCandidate & call function CALCNTR() to calculate the number of Centres  
   - A function DISPTEST() to allow user to view the content of all the data members
3. Define a class in with following description:  
   **Private Members**  
   A data member Flight number of type integer  
   A data member Destination of type string  
   A data member Distance of type float  
   A data member Fuel of type float  
   A member function CALFUEL() to calculate the value of Fuel as per the following criteria  
   ***Distance Fuel***<=1000 500  
   more than 1000 and <=2000 1100  
   more than 2000 2200  
   **Public Members**  
   A function FEEDINFO() to allow user to enter values for Flight Number, Destination, Distance & call function CALFUEL() to calculate the quantity of Fuel  
   A function SHOWINFO() to allow user to view the content of all the data members
4. Define a class REPORT with the following specification:  
   **Private members :**  
   adno integer  
   name a group of characters

marks an array of 5 floating point values  
average average marks obtained  
GETAVG() a function to compute the average obtained in five subject  
**Public members:**  
ReadInfo() function to accept values for adno, name, marks. Invoke the

function GETAVG()   
DisplayInfo() function to display all data members of report on the screen.