

 **REBOOT ACADEMY****Computer Training Institute****Assignment based on
"Classes and Objects"**

1. Define a class in C++ **Flight** 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. Store details in a binary files.

A function **SHOW_FLIGHT_DETAILS()** to allow user to view the details of all the flights stored in the database [files] including current flight details if inserted.

Note:

1. Follow the instructions carefully,
2. Main Screen: Ask User
 1. Insert New Flight Details
 2. Check Existing Flight Details
3. Take input from the user if it is 1 then call **FEEDINFO()** else call **SHOW_FLIGHT_DETAILS()**

2. Define a class REPORT with the following specification:

Private members :

adno	4 digit admission number
name	20 characters
marks	an array of 5 floating point values
average	average marks obtained
GETAVG()	a function to compute the average obtained in five subject
GETRESULT()	a function to compute result in percentage.

Public members:

READINFO() function to accept values for adno, name, marks.

Invoke the function **GETAVG()**

Invoke the function **GETRESULT ()**

Store all the detail of the student in a binary file.

DISPLAYINFO() Function to display the details of all the students with avg and result in percentages on the screen from the file.

Note:

1. Follow the instructions carefully,
2. Main Screen: Ask User
 1. Insert New Student Details
 2. Check Existing Student Details
3. Take input from the user if it is 1 then call **READINFO ()** else call **DISPLAYINFO()**

3. Write the definition for a class called **Time**

Private Members

hours and minutes as integer.

Public Members

The class has the following member functions:

void settime(int, int) to set the specified value in object

void showtime() to display time object

time sum(time) to sum two time object & return time[object]

1. Write the definitions for each of the above member functions.
2. Write main function to create three time objects.
3. Set the value in two objects and call sum() to calculate sum and assign it in third object.
4. Display all time objects.