1) Flight Status

AirFlight business which is into aviation has a requirement to show the flight status when the user enquirers based on the flight number as input.

Write a program that receives flight number as input from the user.

Various flight number and their departure time is given as a dictionary .

Write a method 'flightStatus' which receives the flight number and calculates the time left for departure (keep the method static). That is, from the current time, the time available for departure. For example, if the flight 'Ar456' is leaving at 18.00 and the current time is 10.00 the the time available is 08.00.

This method MUST return a message => Time To Flight 08:00:17.0918529

If the current time is greater than the departure time then display 'Flight Already Left' message.

Method to implement:

public static string flightStatus(string flightNo)

Sample Input 1:

Enter the Flight Number : ZW346

Sample Output 1:

Time To Flight 02:47:17.0918529

Sample Input 2:

Enter the Flight Number : BR267

Sample Output 2:

Flight Already Left

2) Product Details

Scenario

Avenue Mart has purchased products for their company. The supplier has provided the details of the purchased products in the form of a csv file . The SoftTech wants to generate a report on the purchased product details. Given the product details in a csv file, write a program to display the product details from the file.

Implementation

Create **Product** class with the following member variables

Data Type	Variable Name
string	_productName
string	_serialNumber
DateTime	_purchaseDate
double	_cost

Create 4 argument constructor with the following argument _productName, _serialNumber, _purchaseDate, _cost and override **ToString()** method. It must return product details in the specified format.

Create **Program** class.

Read the input file using StreamReader.

Read the lines from the input file and create product object by parsing the input. Add all the product object to the ArrayList.

Display all the objects in the array list in the specified format given below.

Input and Output Format:

The input file name must be "**input.csv**".

The input file consists of a set of product details in comma separated format in the order Product name, Serial Number, Purchase Date, Purchase Cost.

The Purchase date must be in (dd-mm-yyyy) format.

Use **String.Format("{0,-15}{1,-15}{2,-15}{3,-15}", "Product Name", "Serial Number", "Purchase Date", "Purchase Cost")** to format the output.

Sample Output:

Product Name Serial Number Purchase Date Purchase Cost

HairTrimmer HT123 10-02-2017 800

Steel Box SB231 11-04-2018 250

Rope RP240 13-05-2019 100

3)Balls Bowled - Hands-On

John want to create a program for calculating the number of balls bowled , if the user enter the number of overs .

Create a class PlayerBO with the method AddOversDetails and GetNoOfBallsBowled .

Create a class Program and get the number of overs from the user and call the AddOversDetails

PlayerBO method signature

public void AddOversDetails(int oversBowled).

public int GetNoOfBallsBowled()

Implement the collection concepts for add overs

Sample Input1 :

Enter the number of overs

50

Sample Output1:

Balls Bowled : 300

Sample Input2 :

Enter the number of overs

25

Sample Output2:

Balls Bowled : 150

4)AddNewMember - Hands- On

The LakeView Club have list of members under specific groups .

Write a program that add new members in the group available.

There are three groups 1- Gold 2- Silver 3- Platinum .

Get the group input and member name from the user .

Add the particular member to that specified group and display all the member under that group.

Use the Collection concepts to implement .

Sample Input1 :

Group Name :

Silver

Member Name:

Rahul

Sample Output1:

Sam

Peter

Rahul

Sample Input2 :

Group Name :

Gold

Member Name:

Helen

Sample Output2:

Tom

Harry

Helen