

Task 1

Create a simple "**Calculator**" class. This class holds a field/variable that represents a current integer value and few methods mentioned below those allow the user to perform basic arithmetic operations on that value. **Write a constructor that assign initial value to the field 0. Also write an overloaded constructor that assign an initial value Calculator(int val)**

List of methods of Class Calculator:

- **Calculator();**
- **Calculator(int val);**
- **getValue();**
- **setValue(int Value);**
- **add(int Value);**
- **subtract(int Value);**
- **multiply(int Value);**
- **divideBy(int Value);**
- **clear();**

Sample Input Output:

```
-----  
add 10  
Calculator display: 10  
-----  
add 7  
Calculator display: 17  
-----  
multiply 31  
Calculator display: 527  
-----  
subtract 42  
Calculator display: 485  
-----  
divide by 7
```

Calculator display: 69

add 3

Calculator display: 72

subtract 1

Calculator display: 71

clear

Calculator display: 0

Task 2

Define a class in C++ 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 **MaxFuelCapacity** 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 required for this trip. A function **ShowInfo()** to allow user to view the content of all the data members. The **CalFuel()** function should verify that quantity of valid fuel.