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.