Web Engineering

Instructions

Work on this lab individually.

You are **NOT** allowed to use the internet, or mobile phone.

What you have to do

Program the following tasks. The name of your files will be according to the task given in this lab.

Task 1

Implement a calculator in java which takes two values from the user and an operator as a command line argument and produces the required calculation.

Sample execution:

```
C:\Users\ACER\Desktop>javac cal.java

C:\Users\ACER\Desktop>java cal -
Please Enter Value 1 :
4
Please Enter Value 2 :
5
Result : -1
```

Task 2

Write a Java program to find the number of even and odd integers in a given array.

Sample Program
Original Array: [5, 7, 2, 4, 9] Count of even numbers : 2 Count of odd numbers : 3

Task 3

Write a Java program that takes two positive numbers from the user and output their sum. This operation should be repeated until user enter -1.

Remember, you need to run this operation by creating an object and making a call to its appropriate method(s). Your program should display the number of times, the operation is performed.

Sample Program
Enter Number 1: 10 Enter Number 2: 20 Sum is 30 Operation performed 1 time Enter Number 1: 15 Enter Number 2: 15 Sum is 30 Operation Performed 2 times Enter Number 1: -1

Task 4

Write a class named **Employee** in Java with attributes *name, e-mail, salary* and *company name*. All data members must be private. Provide *constructor* to initialize private data-members and the *displayInfo()* method to print the information of the employee.

Write a **main()** to show the execution of your code by creating an object and making a call to its appropriate method(s).

Instruction:

- Convert the string arguments into appropriate types using the concept of wrapper classes. e.g., from string to int conversion:

```
int num = Integer.parseInt("123");
```