

## Week 5 Tutorial

### Question 1.

1. Create a class Student with the following:
  - Instance variables:
    - String name
    - int age
  - Static variable:
    - int objectCounter
  - No-args constructor:
    - Assign your name in name variable
    - Assign your age in age variable
    - Increment the objectCounter
  - Parameterized constructor with name and age as parameter:
    - Assign the value of parameter in instance variable using this keyword
    - Increment the objectCounter
  - display() method:
    - Print the value of name, age and objectCounter

Create two objects using two constructors (No-args and parameterized) and call display method from each object.

## **Question 2.**

Write a program to take two integer inputs from user using Scanner and print sum and product of them.

## **Question 3.**

Write a program to enter the values of two variables 'a', 'b' and 'c' from keyboard using Scanner and then print the highest and lowest number.

## **Question 4.**

Create a class CalculateMarks with the following methods:

- public void handleMarks()
  - Input the marks of 5 subjects using for loop and scanner
  - Sum all the marks
  - Print the marks

Create an object of CalculateMarks class and call handleMarks() method

## **Question 5.**

Write a program to calculate the monthly telephone bills, input the number of calls using the Scanner. Following are the billing rules

- Minimum Rs. 200 for up to 100 calls.
- Plus Rs. 0.60 per call for next 50 calls.
- Plus Rs. 0.50 per call for next 50 calls.
- Plus Rs. 0.40 per call for any call beyond 200 calls.