Lab 04 – Constructors and Static Members

1. Write a program with class **Student** and illustrate the **default** and **parameterized** constructors.
   1. ID, name are instance variables
   2. Display the values inside the constructors only using System.out.println()
2. Write a program to illustrate the usage of static variables and methods.
3. Define a **Complex** class with a default constructor and parameterized constructor. Provide a display() method to display the results in the main class.
4. Repeat Q3 steps with **Time** Class object defined in Lab 03.
5. Define a **BankAccount** class. Include the following members:
   1. Instance Variables
      1. Name of the depositor
      2. Account Number and Account Type
      3. Balance amount in the account
      4. Rate of Interest (Static)
   2. Provide a Default and Parameterized Constructor to this class
   3. Methods
      1. To withdraw & deposit amount
      2. To display all details of an account holder
      3. Display ROI (Static)
6. Create a class called **Counter** that contains a static data member to count the number of counter objects being created. Also define a static member function called showCount() which displays the number of objects created at any given point of time.
7. Define a class called **Customer** with the following instructions:
   1. Private customer ID, name, credit limit
   2. Default and Parameterized Constructors
   3. Display method to display customer details
   4. Main method to declare an array of 5 customers