Assignment – 4

1. Create a class Account with member Variable: long accountNo, String customerName,
2. In main, create a new object of the Account class and print the instance variables value.

   (Note – Default constructor is provided by Java to facilitate the creation of a new object, here variables are assigned default values)
3. Create default constructor assign new value to all variables and write " I am in default Constructor"
4. In main, create another object of the Account class and print the member variables value.

   (Note – Since you have defined a (default) constructor, Java does not provide another one)
5. Define a constructor which takes all arguments and assigns those values to the instance variables and write "I am in parameterized constructor"
6. In main, to create another object of the Account class using the constructor with all arguments and print the instance variable values.
7. In main method, create 2 Account objects with different account numbers and names and print the values of all the member variables of both the accounts.
8. From Account class, comment the default constructor with no arguments and try to create an Account object by calling the default constructor (Note – If any single constructor is present in the source code, Java will not provide a default)

9. Create a class Cycle with member variables: int accountNo, int noOfWheels
    a. Create a default constructor with a write in it “I am default constructor”
    b. Create another constructor which takes 2 arguments, calls the default constructor using this keyword and has a print in it “I am another constructor”.
    c. In main method, create an object of type Cycle by using default constructor(Note the output)
    d. Create another object of type Cycle by using the parameterized constructor(Note the sequence of print indicating that inner most constructor is called first)
10. Show the use of this keyword in Program –
    a. with a field(Instance Variable)
    b. with Constructor
    c. with Method
11. Create a class to print the area of a square and a rectangle. The class has two methods with the same name but different number of parameters. The method for printing area of rectangle has two parameters which are length and breadth respectively while the other method for printing area of square has one parameter which is side of square.
12. Create a class 'Student' with three data members which are name, age and address. It has two methods with the same name set_Info(). First method has two parameters for name and age and assigns the same whereas the second method takes has three parameters which are assigned to name, age and address respectively. Print the name, age and address.

13. Create a class to print an integer and a character with two methods having the same name but different sequence of the integer and the character parameters.For example, if the parameters of the first method are of the form (int n, char c), then that of the second method will be of the form (char c, int n).

14. What is the output of the following program?

```
public class Test
{
   public int getData()
   {
      return 0;
   }
   public long getData()
   {
      return 1;
   }
   public static void main(String[] args)
   {
      Test obj = new Test();
      System.out.println(obj.getData());
   }
}
```