GLS UNIVERSITY
FACULTY OF COMPUTER APPLICATIONS AND IT
BCA-SEM-IV
CORE JAVA
ASSIGNMENT – 2

1   Write a java class LAMP which stores the value for light using boolean variable isOn.
     // true if light is on using method turnOn()
     // false if light is off using method turnOff()
    Cerate obect of LAMP class two ways (1. inside same class 2. using another class)

2   Write a java class Test which stores 8 variables of java data types
     //getValues using scanner class
    //putData display all the values.
    //create object and call methods.

3   Write a java program to find sum of different value using overloading methods.
    (normal method ovetloading using static keyword in method definition)

4   Write a java program to find sum of different value using overloading methods.
    (use class and object concepts)

5   Write a java program to have the functionality of account class
    (//variables accountno, custname, bankname, balance)
    (use static variable concept to assign account number
    constructors to assign values
    static method concept to display account number and bank name
    //scanner class to fetch values and pass into constructor
    //withdraw, deposit and checkbalance functionalites

6   Write a Java Program to find the factorial of a given number using constructor.

7   Write a Java Program to find whether a given number is prime or not using static variable
    and static method.

8   Write a program in Java to pass two,three,four double numbers using variable length
    arguments and display all them.

9   Write a program in Java to find maximum of two,three,four numbers using variable length
    arguments.

10 Write a Java Program to print array using for each loop. Take array values using scanner
    class.

11 Write a Java program to demonstrate use of this Keyword in constructor and method.

12 Write a Java program to demonstrate use of this Keyword. Check whether this can
    access the private members of the class or not.

13 Write a java program to find student grade, percentage, total of given five
    subject marks. Assign rollno number value automatically using static variable and
    constructor concept.

14 Write a Java program that will create class room having length and breadth as data
    members and two methods getdata() and area() as member function. Ask user to input

the room dimensions (l x b) and calculate the area.

15   Write a java program which shows the use of static variable and static method.

16   Write a java program which shows the use of this keyword.

17   Write a java program to print any three subject name using command line argument.

18   Write a java program to print sum of any two value using command line argument.

19   Write a java program to find average of an array elements. (Pass array as argument to the method)

20   Write a java program to find addition of two array elements. (Pass array as argument to the method and also return array from method)

21   Write a java program that accepts two double as its command line arguments, multiplies these together, and display the product.

22   Write a java program that accepts the radius of circle as its command line arguments, and display the area of circle.

23   Write a java program that accepts the 10 numbers as its command line arguments, and display the average.

24   Write a java Program to Demonstrate Working of a Vector class.

25   Write a java Program to Demonstrate Working of a garbage collector and finalize method.

Program Allocation as per below table -

Roll Number	Questions
A1 to A10, B1 to B10, C1 to C10	1,11,10,20,21
A11 to A20, B11 to B20, C11 to C20	2,12,9,19,22
A21 to A30, B21 to B30, C21 TO C30	3,13, 8,18,23
A31 to A40, B31 to B40, C31 TO C40	4,14, 7,17,24
A41 to A50, B41 to B50, C41 TO C50	5,15,6,16,25
A51 to A60, B51 to B60, C51 TO C60	6,16,25, 5,15,
A61 to A70, B61 to B70, C61 TO C70	7,17,24, 4,14
A71 to A80, B71 to B80, C71 TO C80	8,18,23,3,13
A81 to A90, B81 to B90, C81 TO C90	9,19,22,2,12
A91 Onwards, B91 Onwards,C91 Onwards	10,20,21,1,11