Lab Number:	**1.2**
Student Name:	**Suraj kumar Das**
Roll No :	**42**

Title:

To Add Two Numbers, Print Number Entered by User, Swap Two Numbers, Check Whether Number is Even or Odd

1.2 Implement using Java

Learning Objective:

- Students will be able to write C++ and java program for simple arithmetic operations and take input from user.

Learning Outcome:

- Ability to execute a simple C++ and Java program with and without any inputs to the program.
- Understanding the constructs in C++ and Java.

Course Outcome:

ECL304.1	Understand object-oriented programming concepts and implement using C++ and Java

Theory:

Difference between procedural and object oriented language

Application of object orientation

Brief introduction to C++ and Java

Used online compiler.

Faculty: Ms. Deepali Kayande

Algorithm:

1. Start

2. Create an object of the Scanner class to take input from the user.

3. Declare a variable to store the number.

4. Ask the user to initialize the number.

5. Check whether the number is divisible by 2 or not.

6. If the number is divisible by 2, then the entered number is even.

7. If the entered number is not divisible by 2, then the entered number is odd.

8. Display the output.

9. Stop.

Program:

```
import java.util.Scanner;

public class Lab1 {

    public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);  // Create a Scanner object

       /* System.out.println("Enter username");
        String userName = sc.nextLine();  // Read user input
        System.out.println("Username is: " + userName);  // Output user input
```

```java
*/

    int n1,n2,temp;

    System.out.println("Enter first number");

    n1=sc.nextInt();

    System.out.println("Enter second number");

    n2=sc.nextInt();

    System.out.println("Number 1 = "+n1+" Number 2 = "+n2);

    System.out.println("\n ADDITION\n");

    System.out.println("\nAddition of both numbers is: " +(n1+n2));

    System.out.println("\n SWAPPING\n");

    temp=n1;
```

```java
        n1=n2;


        n2=temp;


        System.out.println("After swapping Number 1 = "+n1+" Number 2 = "+n2);




        System.out.println("\n EVEN/ODD\n");


        if(n1%2==0)


            System.out.println(n1+" is Even");


        else


            System.out.println(n1+" is Odd");




    }


}
```

Input given: 4 and 5

Output:

```
java -cp /tmp/yhjvIiWTNI Lab1
Enter first number
4
Enter second number
5
Number 1 = 4 Number 2 = 5

 ADDITION
Addition of both numbers is: 9SWAPPING
After swapping Number 1 = 5 Number 2 = 4EVEN/ODD
5 is Odd
```