	Lab Number:	1
	Student Name:	Anushk Sawant
	Roll No:	06

Title:

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

- 1.1 Implement using C++
- 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

JAVA PROGRAMS

1. TO ADD TWO

NUMBERS

ALGORITHM:

PROGRAM:

```
//To Add Two Numbers
  public class Main
{
   public static void main(String[] args)
   {
     int x = 14; int y = 19; int sum = x +
     y; System.out.println("x + y ="
     +sum);
  }
}
```

OUTPUT:

```
Output

java -cp /tmp/OJfM5bJn9a Main

x + y =33
```

2. TO PRINT NUMBERS ENTERED BY USER ALGORITHM:

2. TO PRINT NUMBERS ENTERED BY USER

ALGORITHM:

+

}

```
PROGRAM: import
```

```
java.util.*; public class

MyClass {
    public static void main(String args[]) {
        int n1, n2,temp;
        Scanner sc = new Scanner(System.in);
        System.out.println("input number 1");
        n1=sc.nextInt();
        System.out.println("input number 2");
        n2=sc.nextInt();
        System.out.println(" n1 + n2=" +(n1+n2));
     }
}
```

OUTPUT:

input number 1 input number 2 n1 + n2=10

3. TO SWAP TWO NUMBERS

ALGORITHM:

3. TO SWAP TWO NUMBERS ALGORITHM:

```
Algorithm for swap no

Step 1: Input n. n., temp

Step 2: a = b

Step 3: b = temp

Step 4: Print acb
```

PROGRAM:

```
//to swap two numbers public class Main
public class main{
  public static void main(String[] args){ int n1 =
    45, n2 = 56; System.out.println("Before
    swapping"); System.out.println("First number
    = " + n1); System.out.println("Second number
    = " + n2); n1 = n1 - n2;
    n2 = n1 + n2;
    n1 = n2 - n1;
    System.out.println("After swapping");
    System.out.println("First number = " + n1);
    System.out.println("Second number = " + n2);
}
```

OUTPUT: 3. TO SWAP TWO NUMBERS

Output java -cp /tmp/OJfM5bJn9a main Before swappingFirst number = 45 Second number = 56 After swapping First number = 56 Second number = 45

4.TO CHECK WHETHER NUMBER IS EVEN OR ODD

ALGORITHM:

	d. D. Third - 1 11 1948
4	Algorithm for even or odd no
	3 tep 1 !- Input sum
	Step 2! - Remainder - Sum '62
	Step 3! - Ff remainder = 0 then
	Step 4!- Print! Sum is an even no
	That he is Figure and a solution
50	Print! - Sum is an old no
	address no et mus kill?

PROGRAM:

```
import java.util.Scanner;

public class EvenOdd {

   public static void main(String[] args) {

        Scanner reader = new Scanner(System.in);

        System.out.print("Enter a number: ");
        int num = reader.nextInt();

        if(num % 2 == 0)
            System.out.println(num + " is even");
        else
            System.out.println(num + " is odd");
        }
    }
}
```

OUTPUT:

