Lab Number:	**1**
Student Name:	**Omkar Santosh Mundhe**
Roll No :	**20**

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

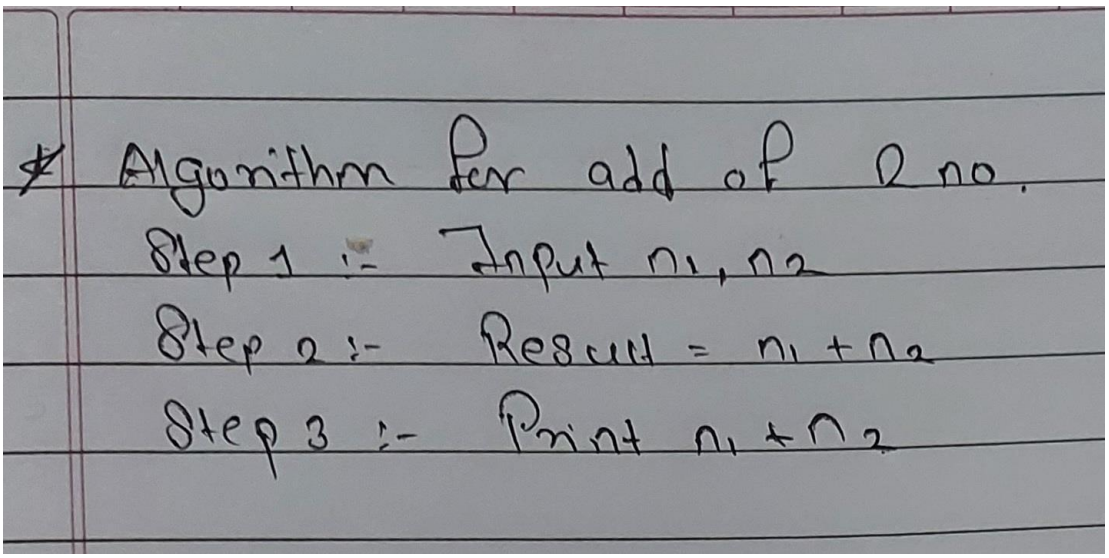
Application of object orientation

Brief introduction to C++ and Java

JAVA PROGRAMS

1. TO ADD TWO NUMBERS

ALGORITHM:



PROGRAM:

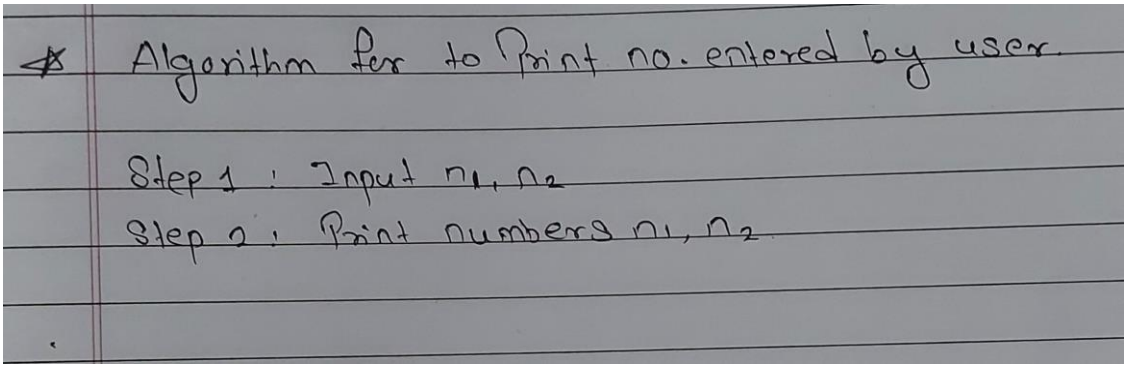
```
//To Add Two Numbers
public class Main
{

 public static void main(String[] args)
 {
   int x = 14; int y = 19;
   int sum = x + y ;
   System.out.println("x + y =" +sum);
 }
}
```

OUTPUT:

2. TO PRINT NUMBERS ENTERED BY USER

ALGORITHM:



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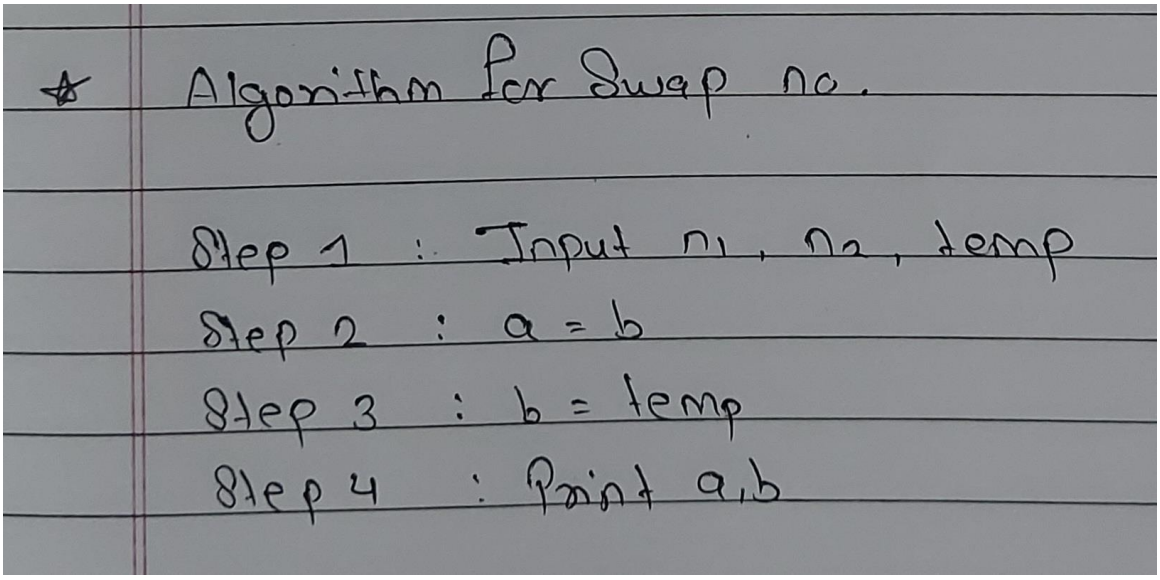
PROGRAM:

```
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:

3. TO SWAP TWO NUMBERS

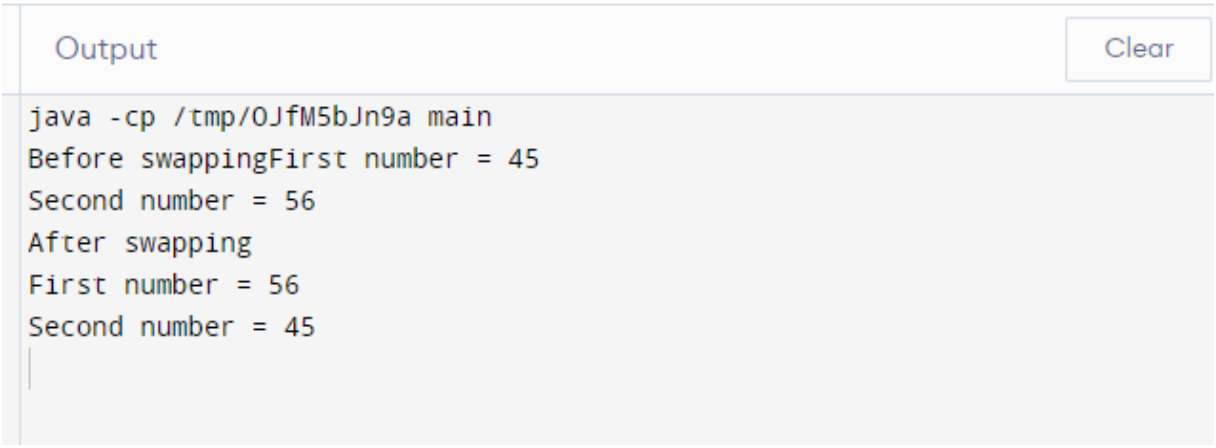
ALGORITHM:



PROGRAM:

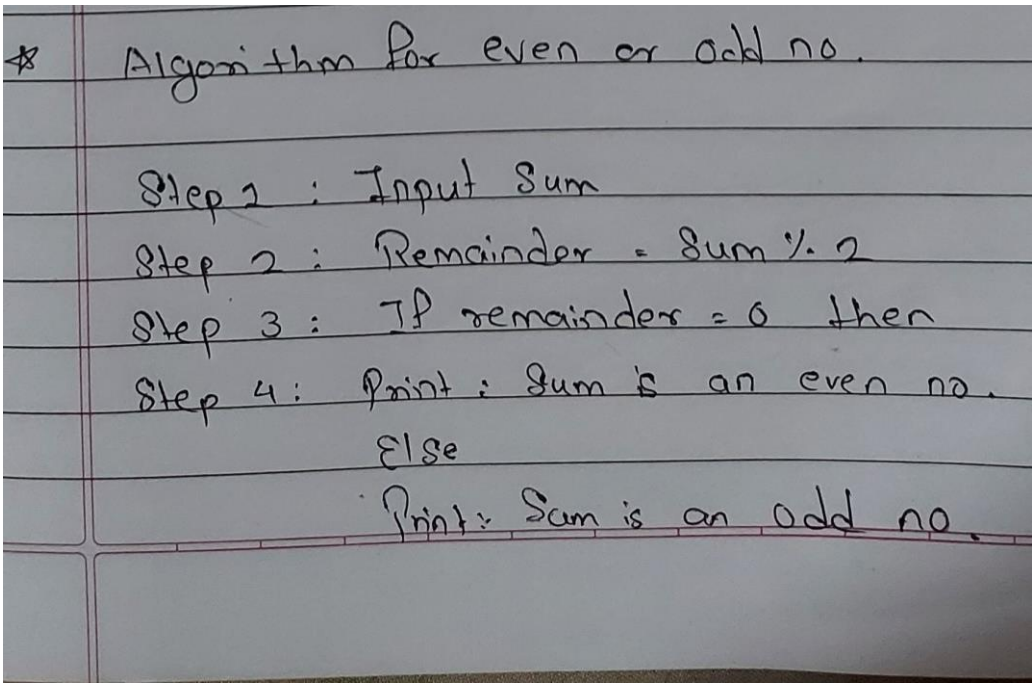
```
//to swap two numbers public class Main
public class main{
   public static void main(String[] args){
    int n1 = 45, n2 = 56;
    System.out.println("Before swapping");
    System.out.println("First number = " + n1);
    System.out.println("Second number = " + n2);
    n1 = n1 - n2;
    n2 = n1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

OUTPUT:


Output
Clear
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

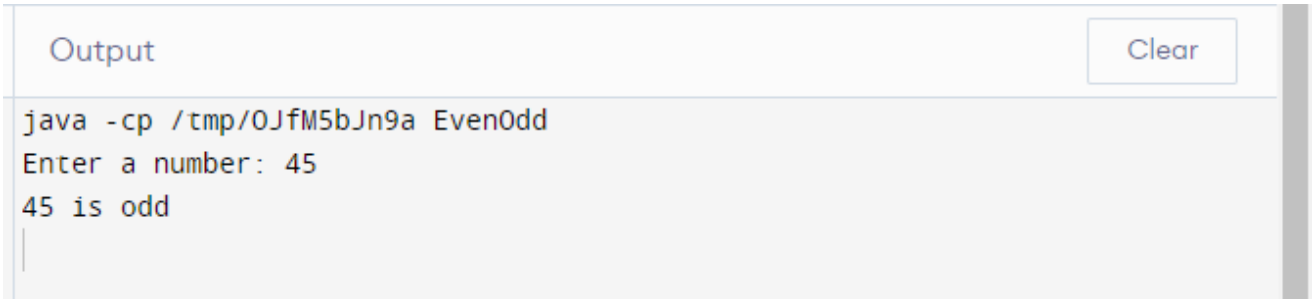
ALGORITHM:



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:


Output
Clear
java -cp /tmp/OJfM5bJn9a EvenOdd
Enter a number: 45
45 is odd