

**Don Bosco Institute of Technology, Kurla(W)**  
**Department of Electronics and Tele-Communication Engineering**  
**ECL304 - Skill Lab: C++ and Java Programming**  
**Sem III**  
**2021-22**

<b>Lab Number:</b>	<b>1</b>
<b>Student Name:</b>	<b>Sakshi Kailash Morey</b>
<b>Roll No :</b>	<b>34</b>

**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:**

<b>ECL304.1</b>	Understand object-oriented programming concepts and implement using C++ and Java
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**Theory:**

**Difference between procedural and object oriented language**

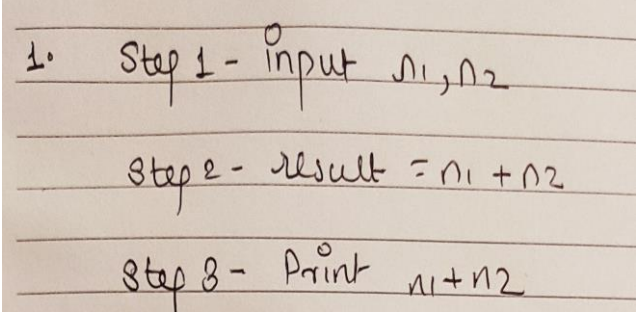
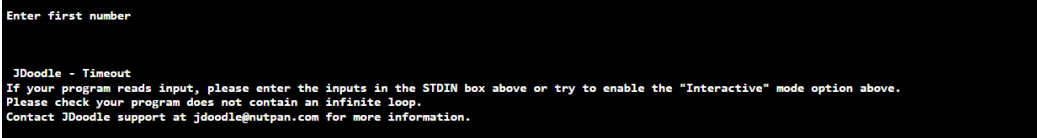
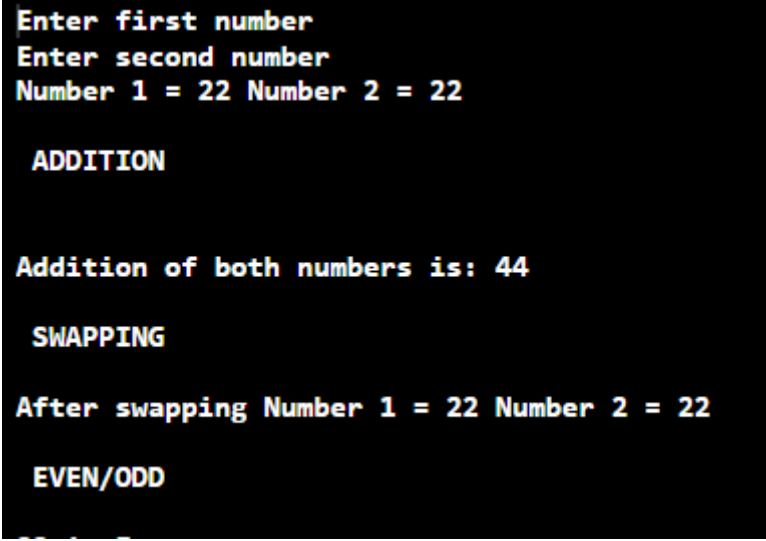
**Application of object orientation**

**Brief introduction to C++ and Java**

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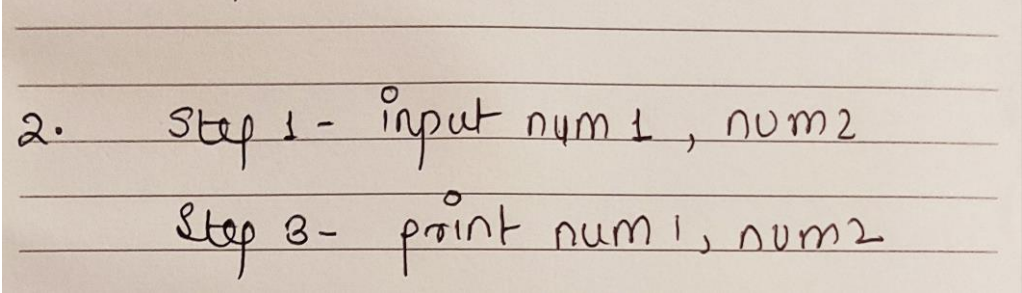
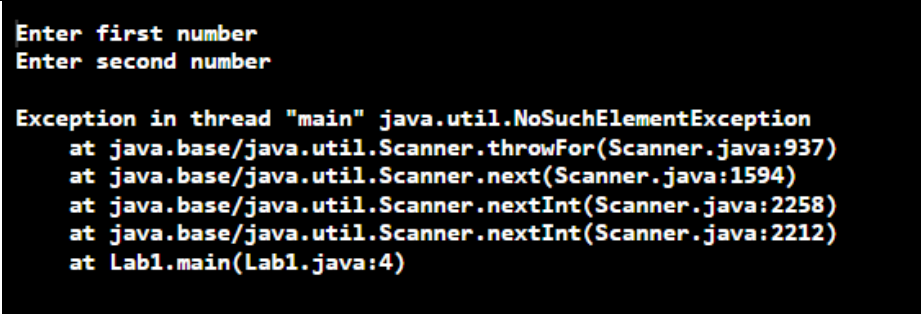
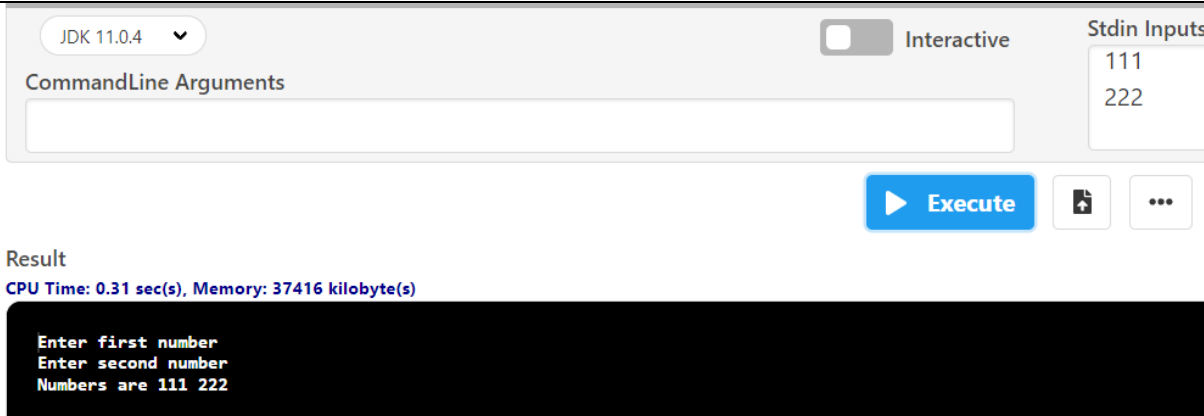
## Java Programming

### 1. To add two numbers

<b>Algorithm</b> :	
<b>Program:</b>	<pre>// To add two numbers import java.util.Scanner;  public class MyClass {     public static void main(String args[]) {         int x=10;         int y=25;         int z=x+y;          System.out.println("Sum of x+y = " + z);     } }</pre>
<b>Input given:</b>	
<b>Output Screenshot:</b>	

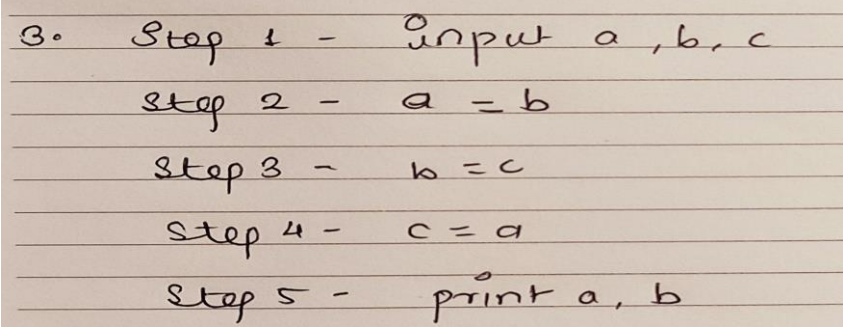
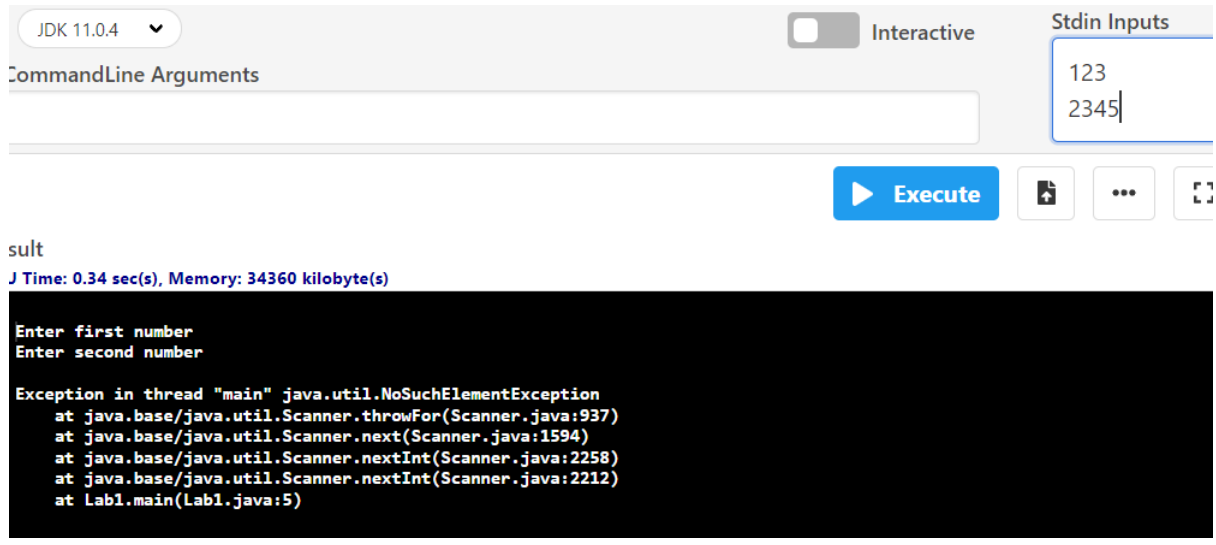
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**2. To print numbers entered by the user**

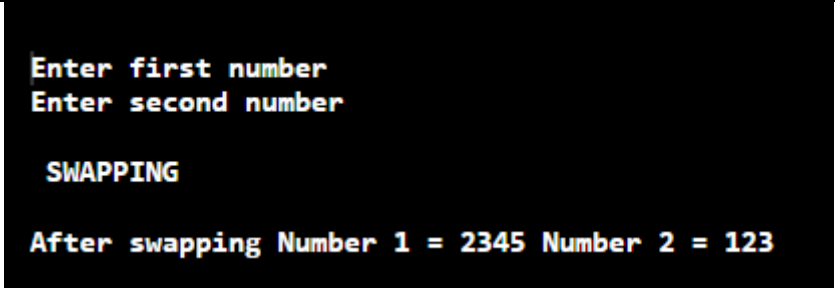
<b>Algorithm :</b>	
<b>Program:</b>	<pre>// To print numbers entered by the user  import java.util.Scanner; public class Lab1 { public static void main(String[] args) { Scanner sc = new Scanner(System.in); int n1,n2,temp; System.out.println("Enter first number"); n1=sc.nextInt(); System.out.println("Enter second number"); n2=sc.nextInt(); System.out.println("Numbers are "+n1+" "+n2); } }</pre>
<b>Input given:</b>	
<b>Output Screenshot:</b>	

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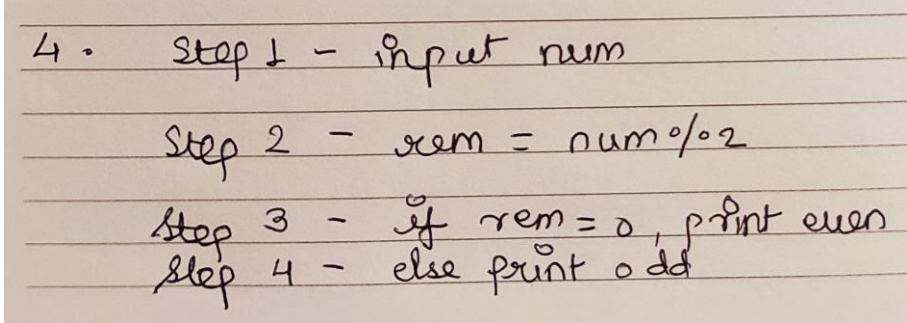
### 3.To swap two numbers

<b>Algorithm :</b>	 <pre> 3. Step 1 - Input a, b, c Step 2 - a = b Step 3 - b = c Step 4 - c = a Step 5 - print a, b </pre>
<b>Program:</b>	<pre> //to swap two numbers import java.util.Scanner; public class Lab1 { public static void main(String[] args) { Scanner sc = new Scanner(System.in); 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("\n SWAPPING\n"); temp=n1;  n1=n2; n2=temp; System.out.println("After swapping Number 1 = "+n1+" Number 2 = "+n2); } } </pre>
<b>Input given:</b>	 <p> JDK 11.0.4 <input type="checkbox"/> Interactive Stdin Inputs  123  2345  Execute  sult  J Time: 0.34 sec(s), Memory: 34360 kilobyte(s)  Enter first number  Enter second number  Exception in thread "main" java.util.NoSuchElementException  at java.base/java.util.Scanner.throwFor(Scanner.java:937)  at java.base/java.util.Scanner.next(Scanner.java:1594)  at java.base/java.util.Scanner.nextInt(Scanner.java:2258)  at java.base/java.util.Scanner.nextInt(Scanner.java:2212)  at Lab1.main(Lab1.java:5) </p>

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<b>Output Screenshot:</b>	
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**4. TO CHECK WHETHER NUMBER IS EVEN OR ODD**

<b>Algorithm :</b>	
<b>Program:</b>	<pre>// TO CHECK WHETHER NUMBER IS EVEN OR ODD  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");     } }</pre>

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<b>Input given:</b>	
<b>Output Screenshot:</b>	