Lab Number:	1
Student Name:	Kanishka Aware
Roll No :	13

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.

A procedural programming language consists of a set of procedure calls and a set of code for each procedure. On the other hand, object oriented languages are based on entities known as objects.

Procedural language: Simple, easy implementation of compilers and interpreters

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Object oriented language: Improved software development productivity due to modularity,

extensibility and reusability.

Application of object orientation: Main application areas of OOP are: User interface

design such as windows, menu. Real Time Systems. Simulation and Modelling. Object

oriented databases. AI and Expert System. Neural Networks and parallel programming.

Decision support and office automation systems

Brief introduction to Java

Java is an Object Oriented language. Object oriented pro-

gramming is a way of organizing programs as collection of objects, each of which repre-

sents an instance of a class. Java is considered as one of simple language because it does

not have complex features like Operator overloading,Multiple inheritance, pointers and

Explicit memory allocation.

Algorithm :	STEP 1: start
	STEP 2: define two n1 and n2
	STEP 3: input number1,n1
	input number2, n2
	STEP 4: addition of two numbers n1 and n2
	STEP 5: swapping of teo numbers n1 and n2
	STEP 6: odd or even
	STEP7: stop
Program:	https://github.com/kanishkadbit/skill-labs-with-OOPM/commit/d5779c1cac570504afea121c0ed3ae4ccfdbf48e
Input given:	15 16

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Output Screenshot:	
	``` java -cp /tmp/U1ahwCvUt9 Lab1 Enter first number 15 Enter second number 16 Number 1 = 15 Number 2 = 16 ADDITION Addition of both numbers is: 31 SWAPPING After swapping Number 1 = 16 Number 2 = 15 EVEN/ODD 16 is Even ```

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