Lab Number:	2
Student	Moozhayil Aditya Saju
Name:	
Roll No:	3

Title:

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

- Implement using C++
- 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: Understand object oriented programming concepts and implement using C++ and JAVA

Theory:

Difference between procedural and object oriented language

Application of object orientation

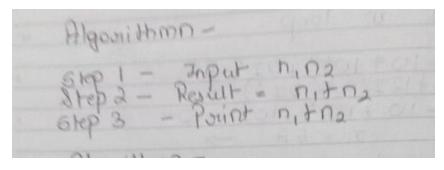
Brief introduction to C++ and Java

JAVA PROGRAMS

TO ADD TWO

NUMBERS

ALGORITHM:



PROGRAM:

//To Add Two Numbers

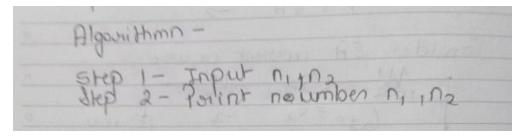
OUTPUT:

Number 1 = 15 Number 2 = 16

Addition of both numbers is:

PRINT NUMBERS ENTERED

BY USER ALGORITHM:



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
 Int n1,n2,temp;
 System.out.println("Enter first number");
 N1=sc.nextInt();
```

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

N2=sc.nextInt();
}
```

OUTPUT:

```
Enter first number
15
Enter second number
16
```

• To SWAP TWO NUMBERS:

Algorithmn:

```
Algarithmn -

the 1- Input a, b, temp

shed 3- a=b

shed 3- b= temp

RStep 4- Print a, b
```

PROGRAM:

```
System.out.println("After
swapping"); System.out.println("First
number = " + n1);
System.out.println("Second number = " + n2);
}
```

OUTPUT:

```
SWAPPING After swapping Number 1 = 16 Number 2 = 15
```

• TO CHECK WHETHER NUMBER IS EVEN OR ODD ALGORITHM:

```
Algorithmn -

Stop 1 - Input pa number

Stop 2 - Remainder = sum'/ 2

Stop 3 - If remainder = 0 then

Stop 4 - Print number v dven number

else

porint number v odd number
```

PROGRAM:

```
//to check whether no is even or
odd. public class Main
{ public static void main(String[] args)
    // Declare the integer
variable int num = 22;
    // If condition to check if the remainder is
zero if (num % 2 == 0)
    {
      // If remainder is zero then this number is even
      System.out.println("Entered Number is Even");
    }
    else
```

```
{
     // If remainder is not zero then this number is
     // odd
     System.out.println("Entered Number is Odd");
   }
    }
}
OUTPUT:
 EVEN/ODD
22 is Even
```