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

Lab Number:	**1**
Student Name:	**Rohit Gupta**
Roll No :	**30**

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

Algorithm :	
Program:	
Input given:	
Output Screenshot:	

Faculty: Ms. Deepali Kayande

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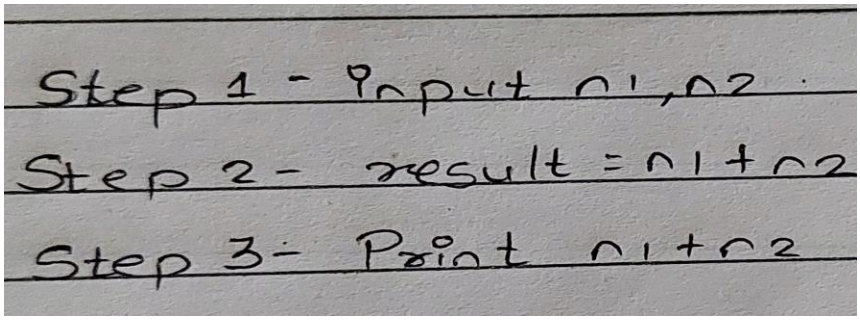
C++ PROGRAMS

1. TO ADD TWO NUMBERS

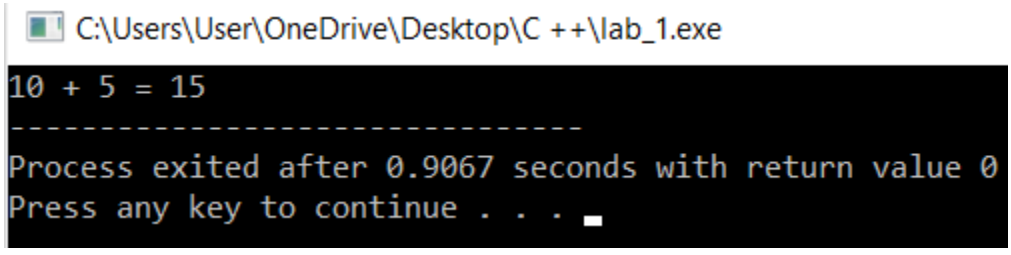
ALGORITHM:



PROGRAM:

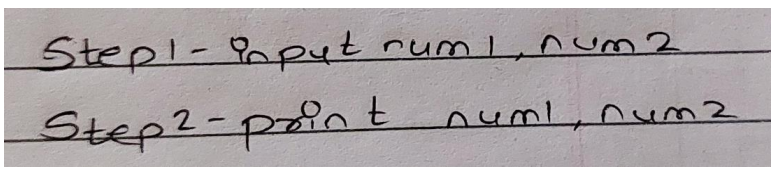
```
//To Add Two Numbers
#include<iostream>
using namespace std;
int main()
{
	int n1,n2,result;
	n1=10;
	n2=5;
	result=n1+n2;
	cout << n1 << " + " << n2 << " = " << result;
	return 0;
}
```

OUTPUT SCREENSHOT:



2. TO PRINT NUMBERS ENTERED BY USER

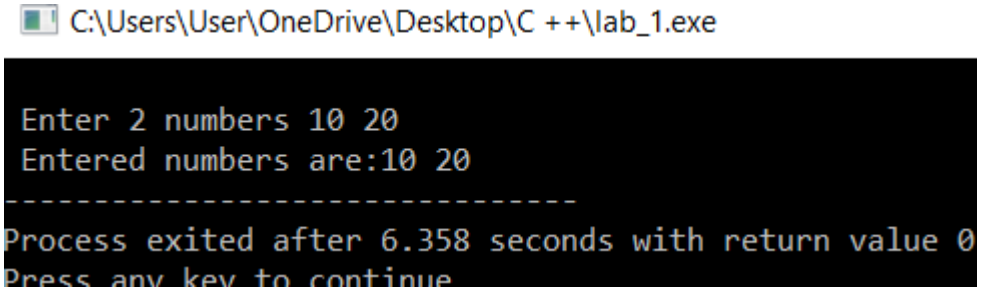
ALGORITHM:



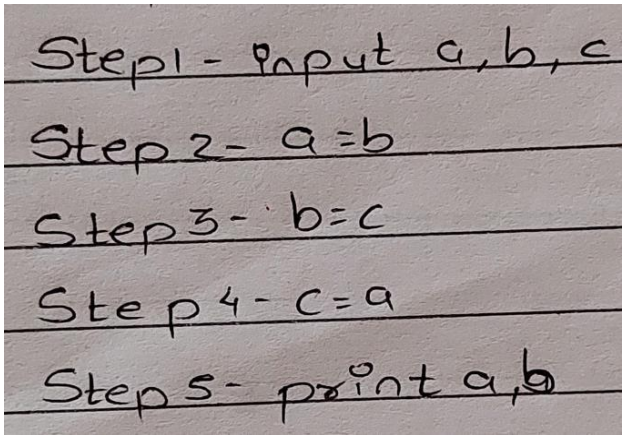
PROGRAM:

```
// Print Number Entered by User
#include<iostream>
using namespace std;
int main()
{
int num1,num2;
        cout<<"\n Enter 2 numbers";
        cin>>num1>>num2;
        cout<< " Entered numbers are:" << num1<< " " << num2;
        return 0;
}
```

OUTPUT SCREENSHOT:



3. TO SWAP TWO NUMBERS
ALGORITHM:

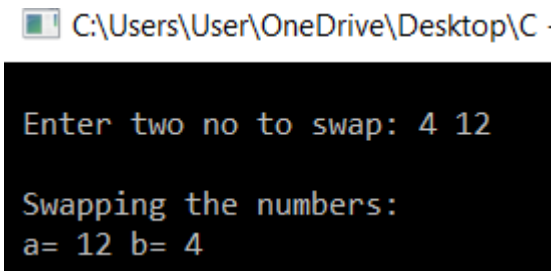


PROGRAM:

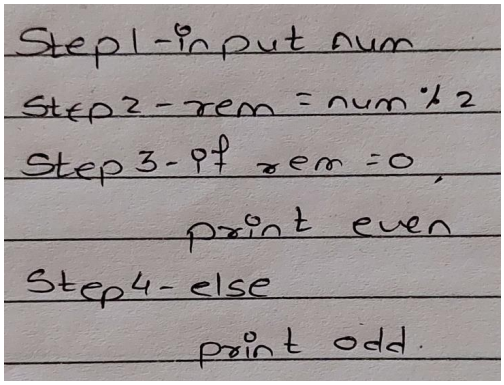
```
//Swap Two Numbers

#include<iostream>
using namespace std;
int main()
{
```

```
    int a,b,c;
    cout<<"\n Enter two no to swap:";
    cin>>a>>b;
    c=a;
    a=b;
    b=c;
    cout<<"\n Swapping the numbers: \n";
    cout<<" a= "<<a<<" b= "<<b;
    return 0;
}
```

OUTPUT SCREENSHOT:



4. TO CHECK WHETHER NUMBER IS EVEN OR ODD
ALGORITHM:

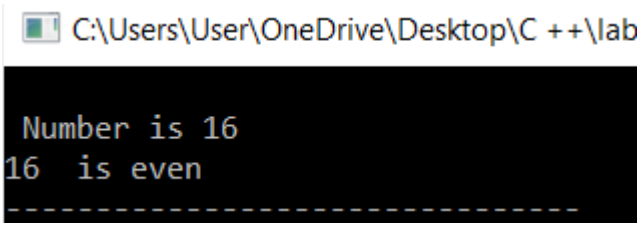


PROGRAM:

```
//To check whether no is even or odd

#include<iostream>
using namespace std;
```

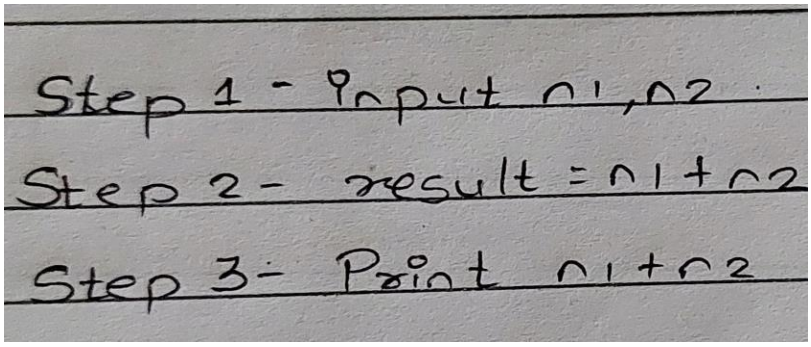
```
int main()
{
        int num=5;
        cout<<"\n Numberis";
        cin>>num;

        if ( num % 2 == 0)
        cout<<num<<" is even";
        else
        cout<<num<<" is odd";
}
```

OUTPUT SCREENSHOT:



JAVA PROGRAMS

1. TO ADD TWO NUMBERS
ALGORITHM:



PROGRAM:

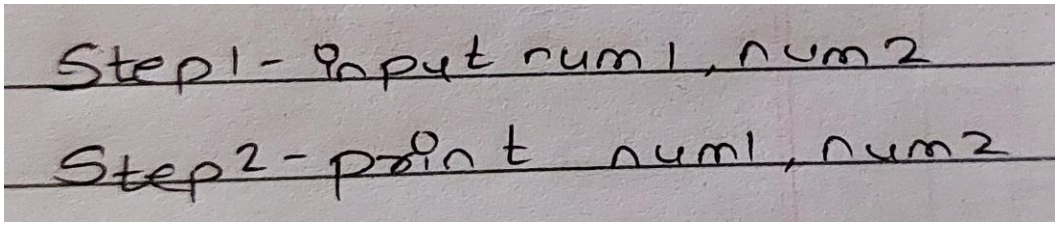
```
//To Add Two Numbers
public class Main{
public static void main(String[] args){
```

```
int x = 5;
int y = 6;
int sum = x + y ;
System.out.println("x + y =" +sum);
}
}
```

OUTPUT:

```
Output
java -cp /tmp/4HsLwsERj2 Main
x + y =11
```

2. TO PRINT NUMBERS ENTERED BY USER
ALGORITHM:



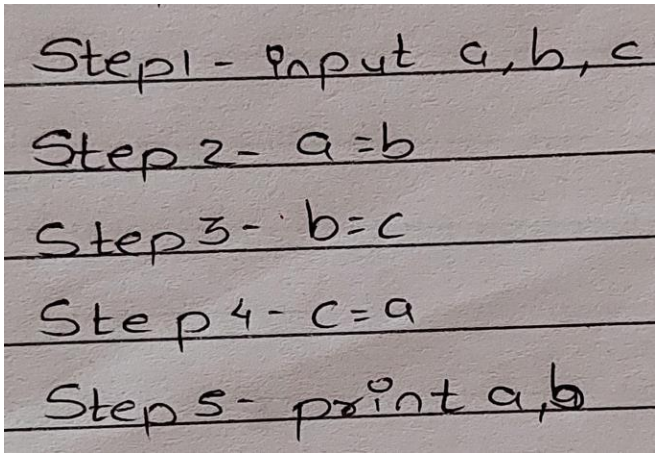
PROGRAM:

```
import  java.util.Scanner;

public class Lab1 {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

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);

}

}
```

OUTPUT:

```
Output
java -cp /tmp/4HsLwsERj2 Lab1
Enter first number
4
Enter second number
3
Numbers are 4 3
```

3. TO SWAP TWO NUMBERS
ALGORITHM:



PROGRAM:

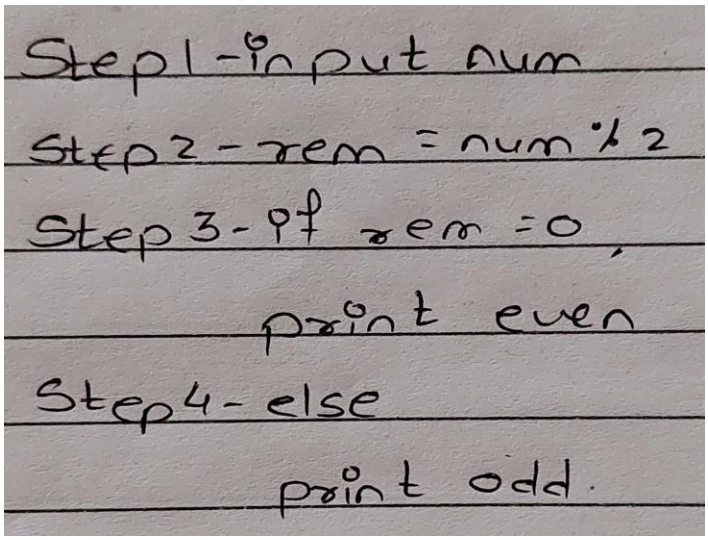
```
//to swap two numbers
import  java.util.Scanner;

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);

}

}
```

OUTPUT:

```
Output

java -cp /tmp/4HsLwsERj2 Lab1
Enter first number4
Enter second number5
SWAPPING

After swapping Number 1 = 5 Number 2 = 4
```

4. TO CHECK WHETHER NUMBER IS EVEN OR ODD
ALGORITHM:



PROGRAM:

```
//to check whether no is even or odd.
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 a number:");
n1=sc.nextInt();
System.out.println("\n EVEN/ODD\n");
```

```
if(n1%2==0)
System.out.println(n1+" is Even");
else
System.out.println(n1+" is Odd");
}
}
```

OUTPUT: