

**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>Shalen Mohod</b>
<b>Roll No :</b>	<b>37</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**

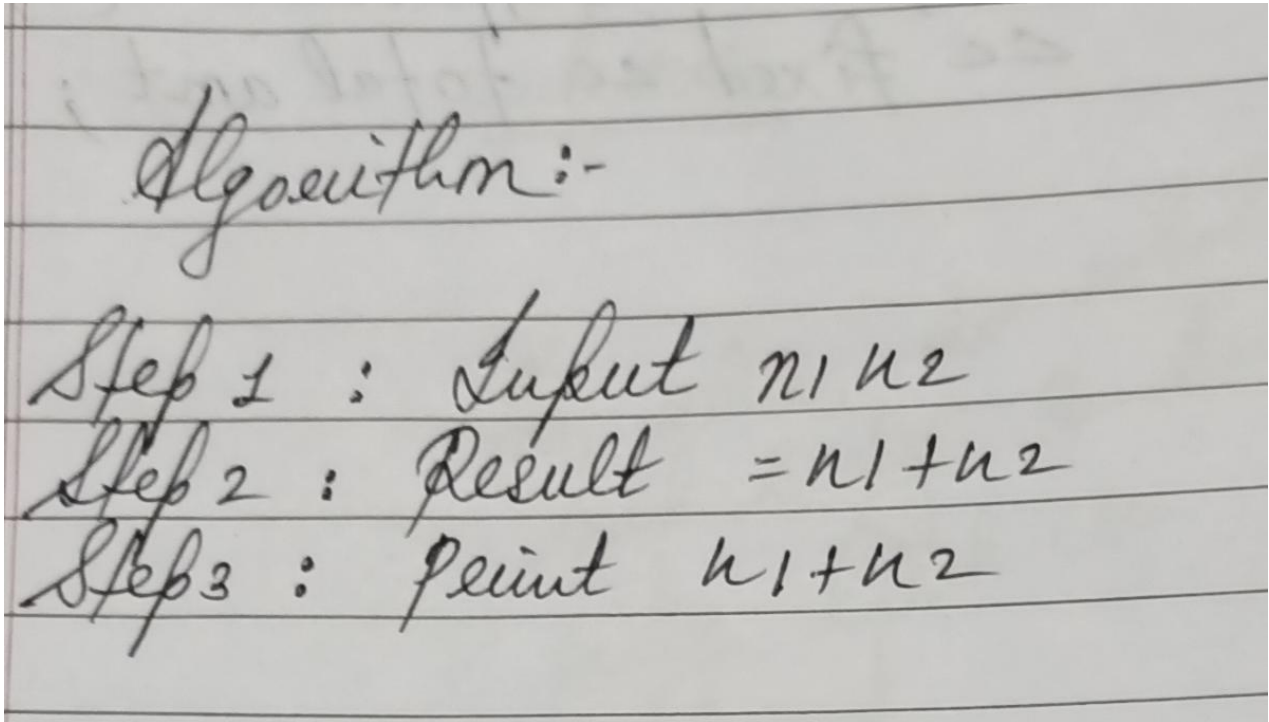
**Application of object orientation**

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

## **C++ PROGRAMS**

### **1. TO ADD TWO NUMBERS**

#### **ALGORITHM:**



#### **PROGRAM:**

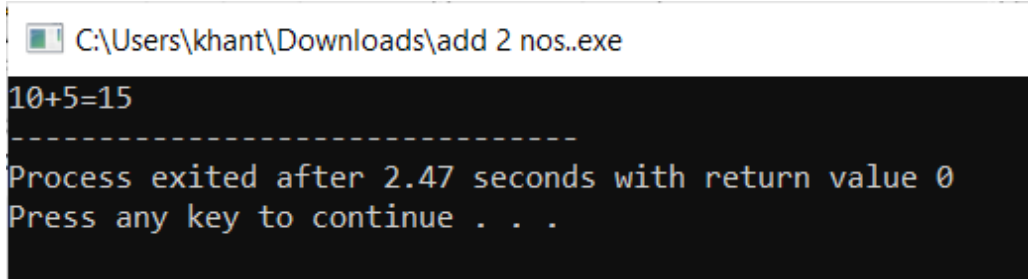
```
//To Add Two Numbers
#include<iostream>
using namespace std;

int main()
{
    int n1, n2, result;
    n1=10;
    n2=5;
    result=n1+n2;
    cout << n1 <<"+" << n2 << "=" << result;
    return 0;
```

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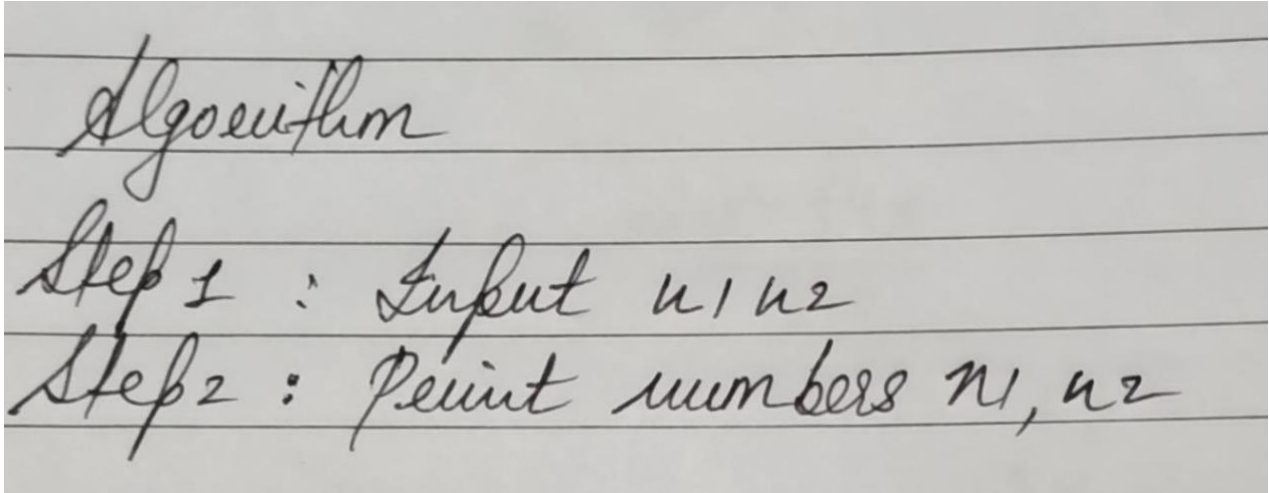
**OUTPUT SCREENSHOT:**



A screenshot of a Windows command prompt window. The title bar shows the file path "C:\Users\khant\Downloads\add 2 nos..exe". The command prompt displays the output "10+5=15" in green text. Below this, a dashed line is shown. The text "Process exited after 2.47 seconds with return value 0" is displayed in green. At the bottom, the prompt "Press any key to continue . . ." is shown in green.

## **2. TO PRINT NUMBERS ENTERED BY USER**

### **ALGORITHM:**



### **PROGRAM:**

```
// Print Number Entered by User
#include<iostream>
using namespace std;

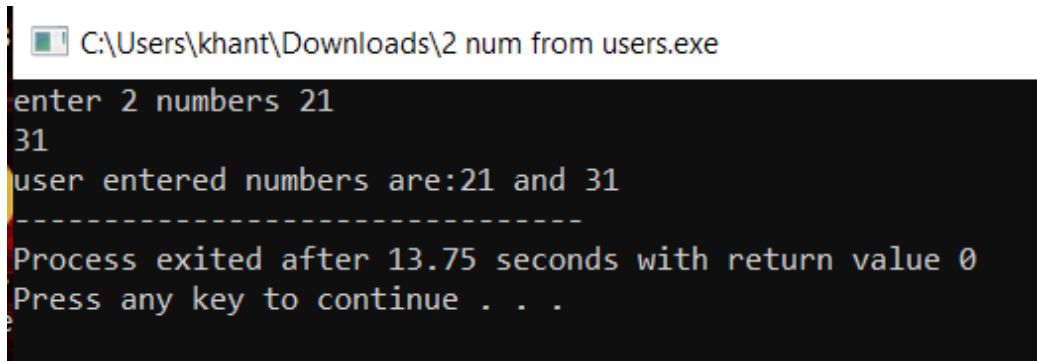
int main()
{
    int num1,num2;

    cout << "enter 2 numbers";
    cin >> num1 >> num2;

    cout << "user entered numbers are:" << num1 << " and " << num2;
    return 0;
}
```

### **OUTPUT SCREENSHOT:**

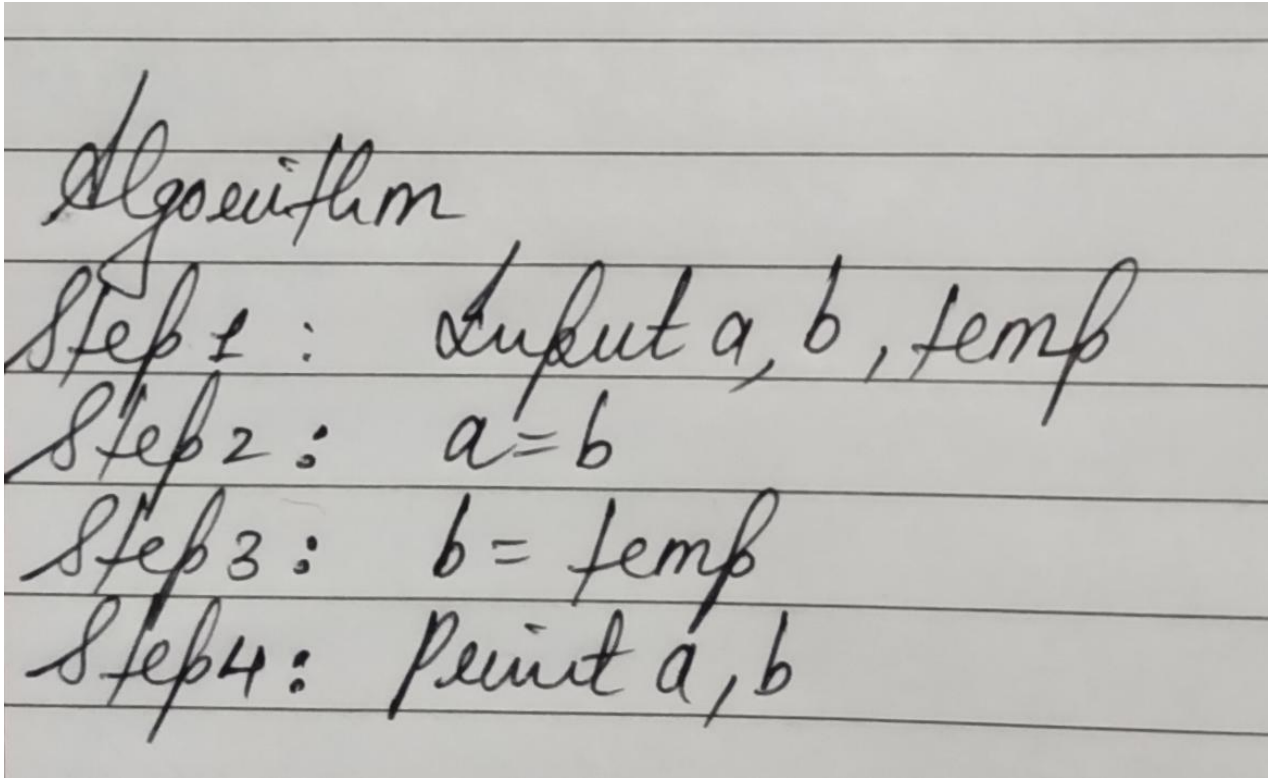
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```
C:\Users\khant\Downloads\2 num from users.exe
enter 2 numbers 21
31
user entered numbers are:21 and 31
-----
Process exited after 13.75 seconds with return value 0
Press any key to continue . . .
```

### 3. TO SWAP TWO NUMBERS

#### ALGORITHM:



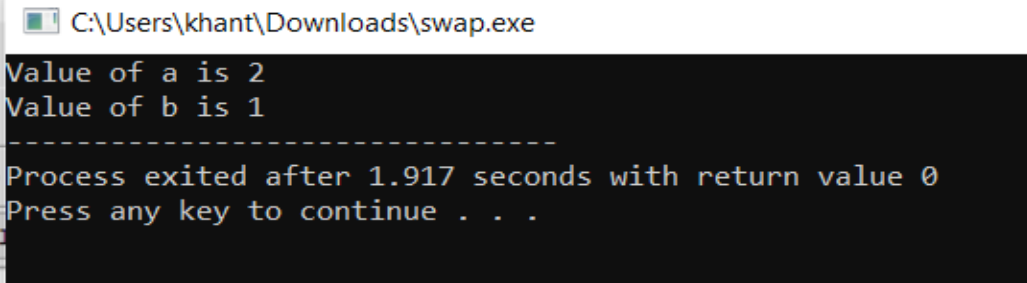
#### PROGRAM:

```
//Swap Two Numbers
#include <iostream >
using namespace std;
int main()
{
    int a = 1, b = 2, temp;
    temp = a;
    a = b;
    b = temp;
    cout << "Value of a is " <<a<<endl;
    cout << "Value of b is " <<b;
    return 0;
```

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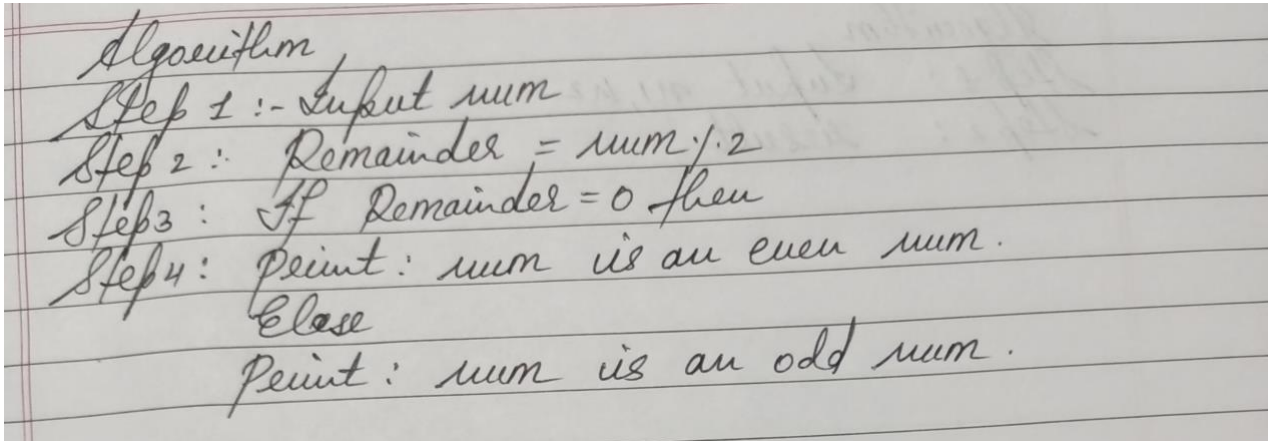
**OUTPUT SCREENSHOT:**



```
C:\Users\khant\Downloads\swap.exe
Value of a is 2
Value of b is 1
-----
Process exited after 1.917 seconds with return value 0
Press any key to continue . . .
```

#### **4. TO CHECK WHETHER NUMBER IS EVEN OR ODD**

##### **ALGORITHM:**



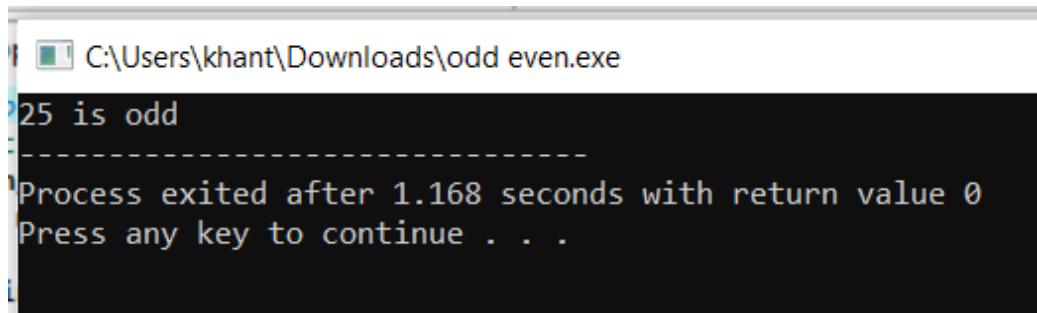
##### **PROGRAM:**

```
//to check whether no is even or odd
#include <iostream>
using namespace std;
int main()
{
    int num = 25;
    if(num % 2 == 0)
        cout<<num<<" is even";
    else
        cout<<num<<" is odd";
    return 0;
}
```



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**OUTPUT SCREENSHOT:**



```
C:\Users\khant\Downloads\odd even.exe
25 is odd
-----
Process exited after 1.168 seconds with return value 0
Press any key to continue . . .
```

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**Faculty: Ms. Deepali Kayande**

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