Lab Number:	**1**
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Roll No :	29

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

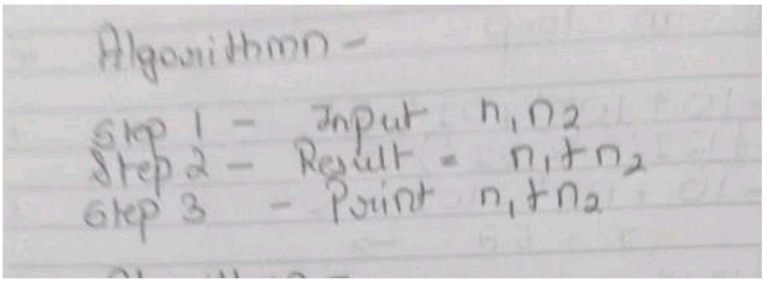
Application of object orientation

Brief introduction to C++ and Java

C++
PROGRAMS

- **TO ADD TWO NUMBERS**

ALGORITHM:

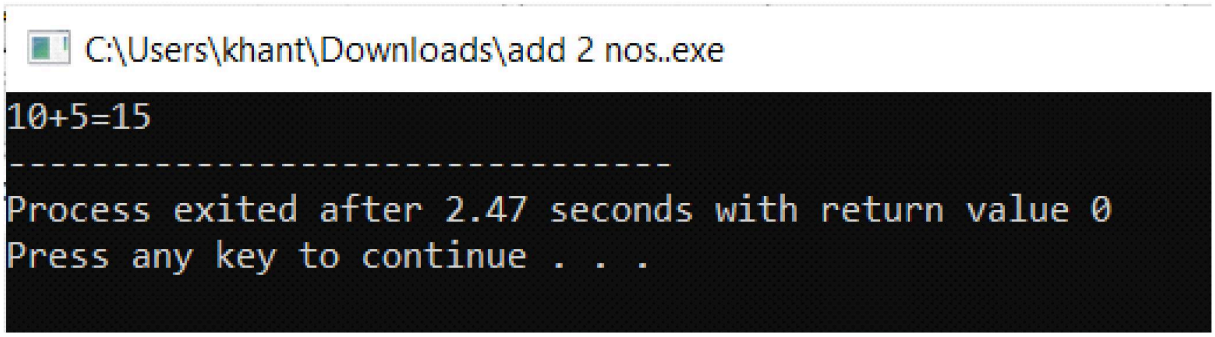


PROGRAM:

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

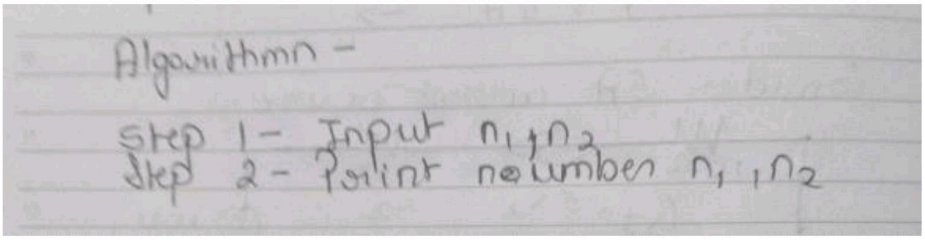
```
int main()
{
        int n1, n2,
        result;
        n1=10;
        n2=5;
        result=n1+n2;
        cout << n1 <<"+" << n2 <<
        "=" << result; return 0;

}
```

OUTPUT SCREENSHOT:



- **TO PRINT NUMBERS ENTERED BY USER**

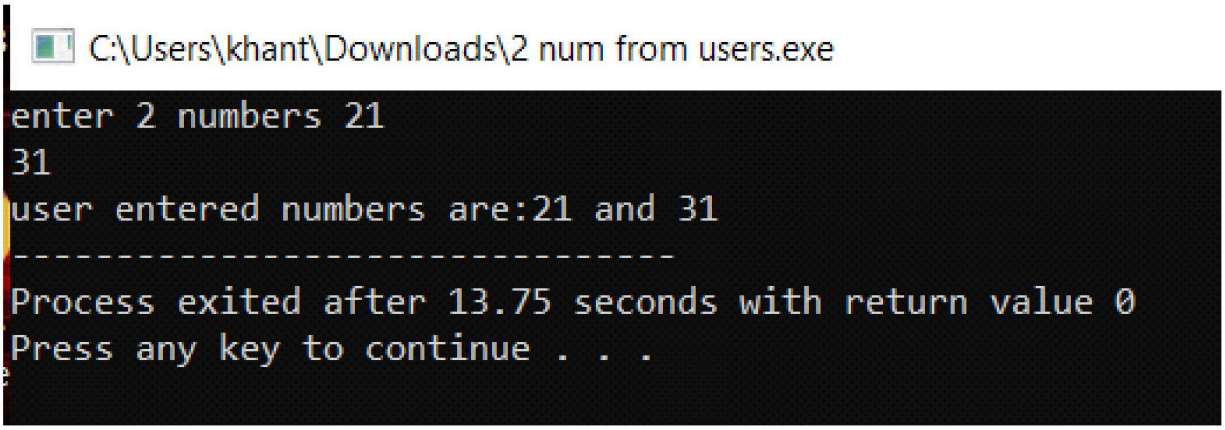
  ALGORITHM:



PROGRAM:

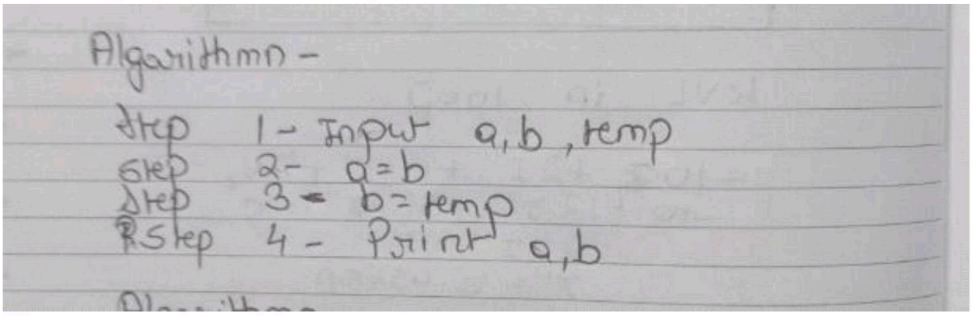
```
// Print Number
Entered by User
#include<iostream>
using namespace std;

int main()
{
    int num1,num2;

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


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

OUTPUT SCREENSHOT:



- **TO SWAP TWO NUMBERS**

ALGORITHM:



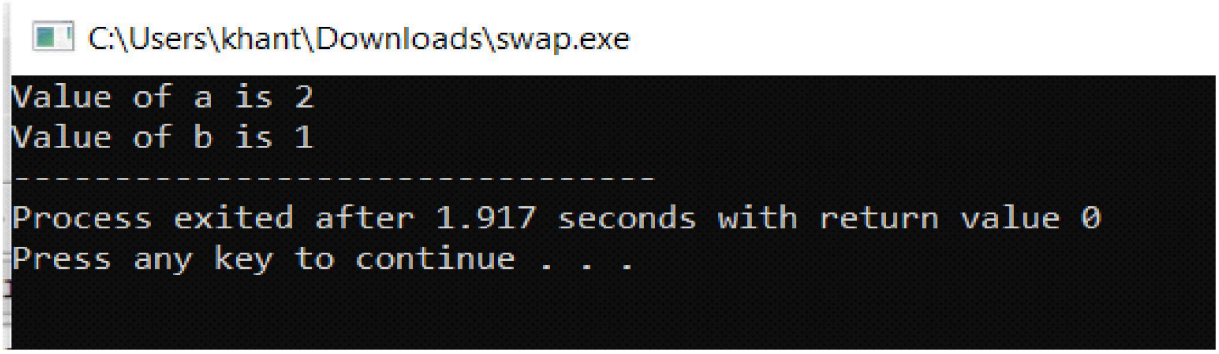
PROGRAM:

//Swap Two Numbers

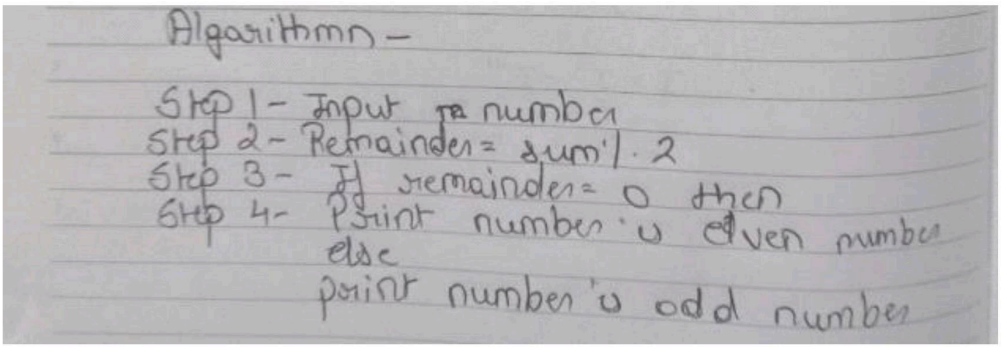
#include

```
<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;
}
```

OUTPUT SCREENSHOT:



- **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;
}
```

OUTPUT SCREENSHOT: