Lab	1
Number:	
Student	KSHITIJ PRASAD BARE
Name:	
Roll No:	14

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:

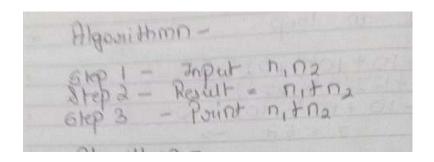
Difference between procedural and object oriented language

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;
}</pre>
```

```
10+5=15
-----Process exited after 2.47 seconds with return value 0
Press any key to continue . . .
```

• TO PRINT NUMBERS

ENTERED BY USER

ALGORITHM:

```
Algorithmn -

Step 1 - Input ning

Skep 2 - Porlint notumber ning
```

PROGRAM:

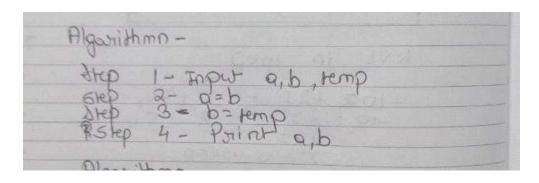
```
// Print Number
Entered by User
#include<iostream>
using namespace std;
int main()
{
     int num1,num2;
     cout << "enter 2
     numbers"; cin >>
     num1 >> num2;
     cout << "user entered numbers are:" << num1
     << " and " <<num2; return 0;
}
```

```
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 . . .
```

TO SWAP TWO

NUMBERS

ALGORITHM:



PROGRAM:

//Swap Two

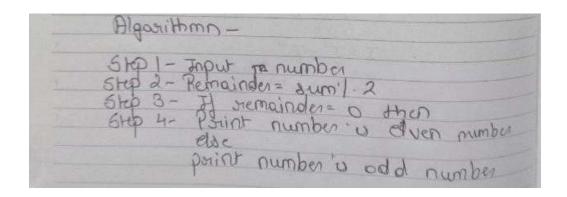
Numbers

#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;
}
```

```
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 . . .
```

• 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;
}</pre>
```

```
25 is odd
------
Process exited after 1.168 seconds with return value 0
Press any key to continue . . .
```