

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:	Sakshi Kailash Morey
Roll No :	34

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
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Theory:

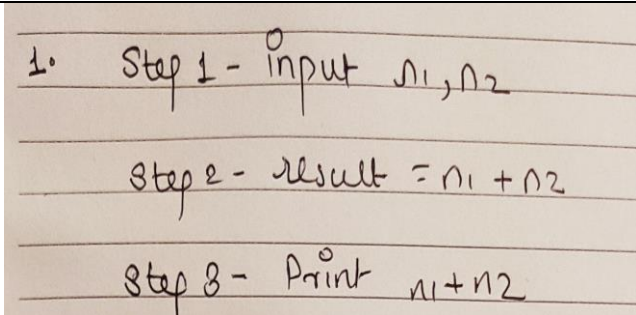
Difference between procedural and object oriented language

Application of object orientation

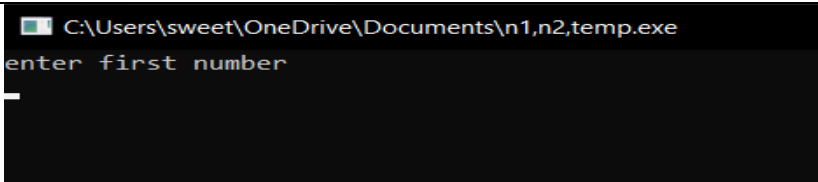
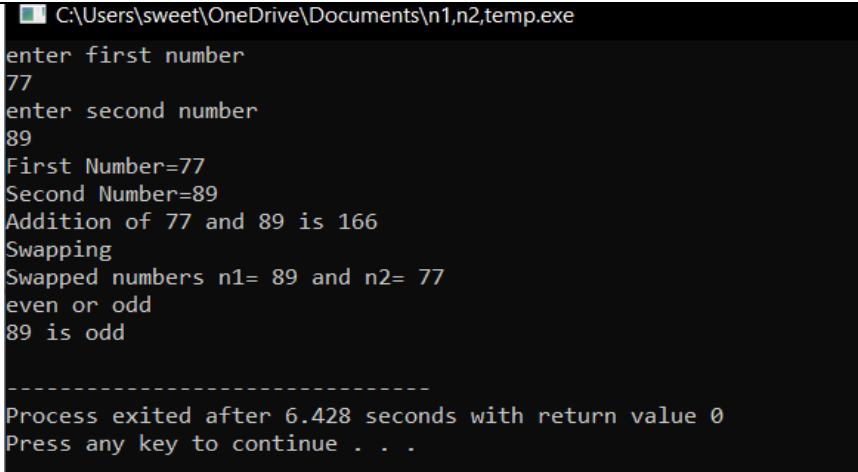
Brief introduction to C++ and Java

C ++ PROGRAMMING

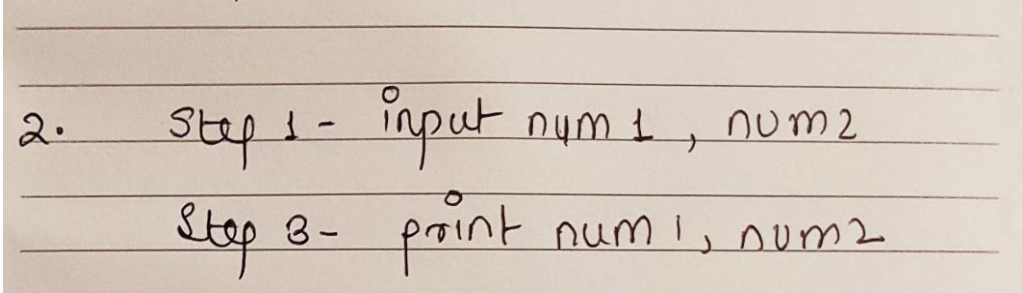
1.TO ADD TWO NUMBERS :

Algorithm :	
Program:	<pre>//To Add Two Numbers #include<iostream> using namespace std; int main() { int n1,n2,temp; cout << "enter first number" << endl; cin >> n1; cout << "enter second number" << endl; cin >> n2; cout << "First Number=" << n1 << endl << "Second Number=" << n2 << endl; cout << "Addition of " << n1 << " and " << n2 << " is " << n1+n2; cout << "\nSwapping \n"; temp=n1; n1=n2; n2=temp; cout << "Swapped numbers n1= " << n1 << " and n2= " << n2 << endl; cout << "even or odd \n"; if(n1%2==0) cout << n1 << " is even \n"; else</pre>

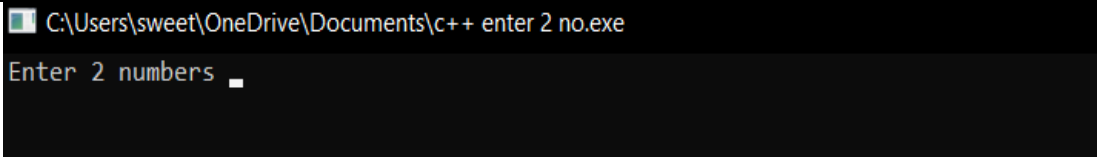
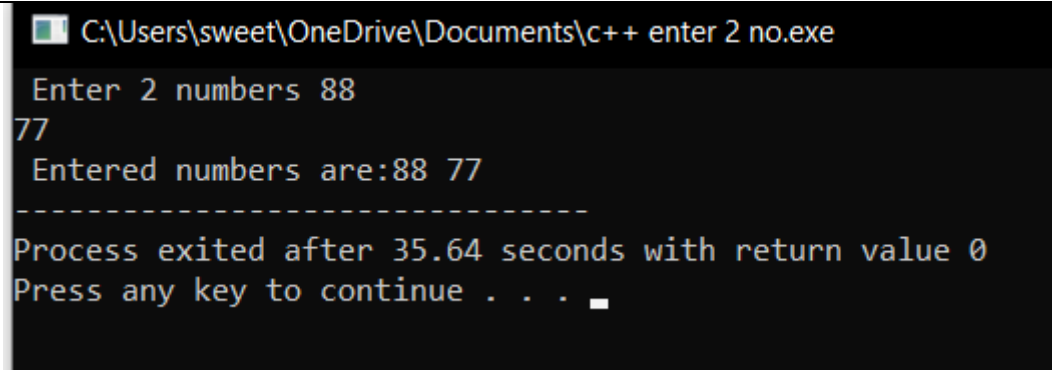
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	<pre> cout<<n1<<" is odd \n"; return 0; } </pre>
Input given:	
Output Screenshot:	

2. TO PRINT NUMBERS ENTERED BY USER

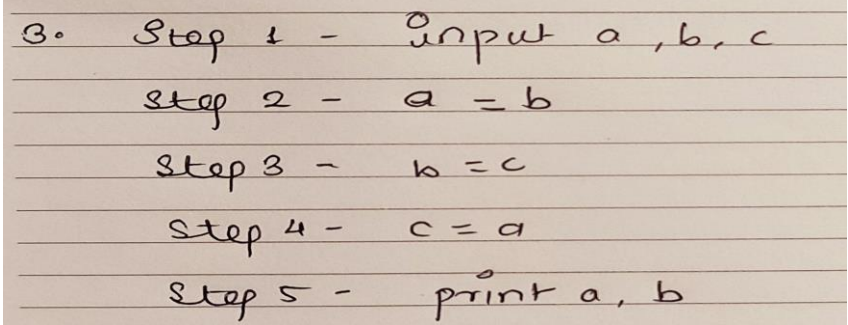
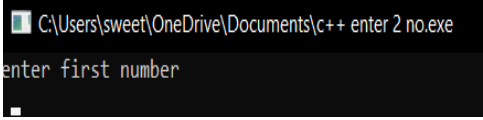
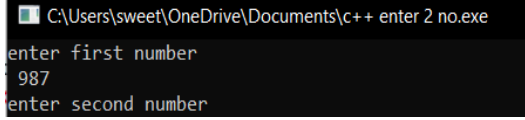
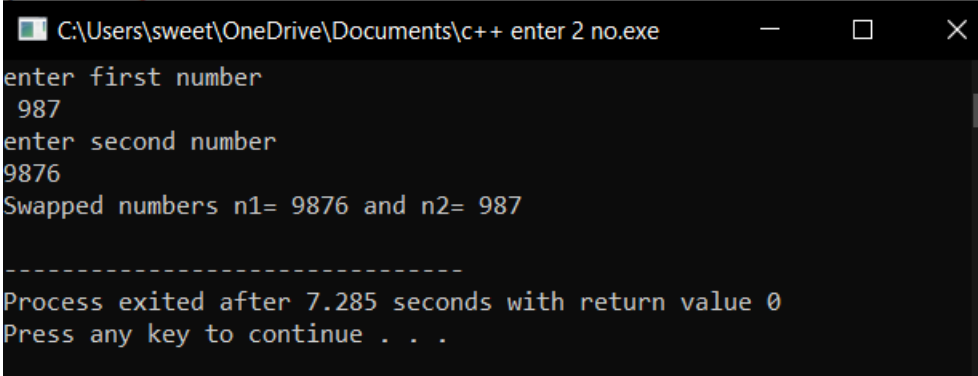
Algorithm :	
Program:	<pre> //TO PRINT NUMBERS ENTERED BY USER // Print Number </pre>

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	<p>Entered by User</p> <pre>#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; }</pre>
Input given:	
Output Screenshot:	

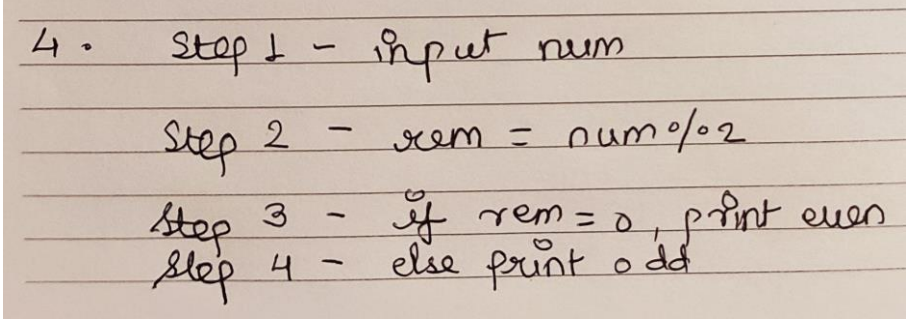
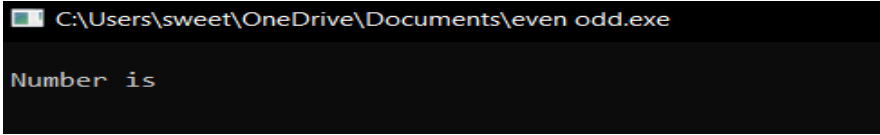
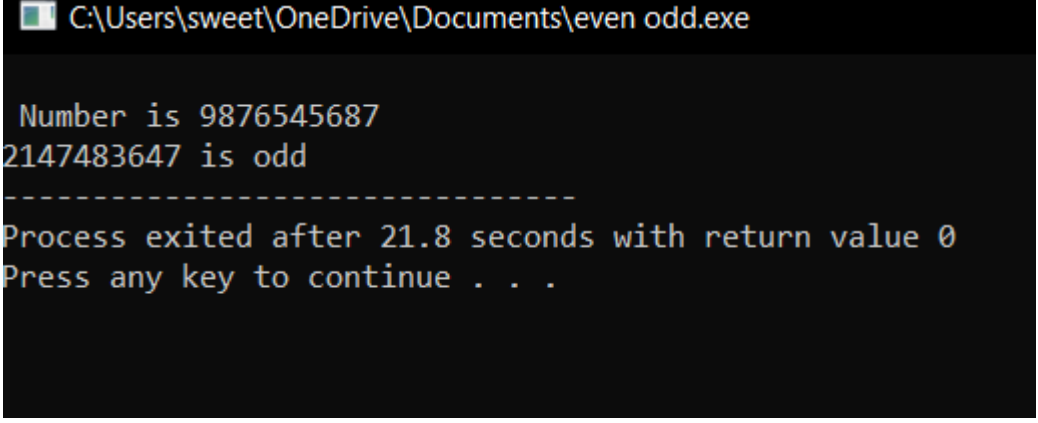
3. TO SWAP TWO NUMBERS

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Algorithm :	 <pre> 3. Step 1 - Input a, b, c Step 2 - a = b Step 3 - b = c Step 4 - c = a Step 5 - print a, b </pre>
Program:	<pre> #include<iostream> using namespace std; int main() { int n1,n2,temp; cout << "enter first number" << endl; cin >> n1; cout << "enter second number" << endl; cin >> n2; cout<<"Swapped numbers n1= "<<n2<<" and n2= "<<n1<<endl; return 0; } </pre>
Input given:	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px; width: 45%;">  <pre> C:\Users\sweet\OneDrive\Documents\c++ enter 2 no.exe enter first number _ </pre> </div> <div style="border: 1px solid black; padding: 5px; width: 45%;">  <pre> C:\Users\sweet\OneDrive\Documents\c++ enter 2 no.exe enter first number 987 enter second number _ </pre> </div> </div>
Output Screenshot:	 <pre> C:\Users\sweet\OneDrive\Documents\c++ enter 2 no.exe enter first number 987 enter second number 9876 Swapped numbers n1= 9876 and n2= 987 ----- Process exited after 7.285 seconds with return value 0 Press any key to continue . . . </pre>

4. TO CHECK WHETHER NUMBER IS EVEN OR ODD

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Algorithm :	
Program:	<pre>// To check whether the number is even or odd #include<iostream> using namespace std; int main() { int num=5; cout<<"\n Number is"; cin>>num; if (num % 2 == 0) cout<<num<<" is even"; else cout<<num<<" is odd"; } }</pre>
Input given:	
Output Screenshot:	

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