Sem III 2021-22

Lab Number:	1
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Roll No:	21

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 G+ 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

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C ++ PROGRAMMING

1.TO ADD TWO NUMBERS:

Algorithm:	1. Step 1°- input D1, Do
	Step 2 = result = not the
	Step3: Print nathe

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```
Program:
                    //To Add Two Numbers
                    #include<iostream>
                    using namespace std;
                    int main()
                       int n1,n2,temp;
                       cout << "enter first number" << endl;</pre>
                       cin >> n1;
                       cout << "enter second number" <<endl;</pre>
                       cin >> n2;
                       cout <<"First Number="<<n1<<endl<<"Second
                    Number="<<n2<<endl;
                       cout << "Addition of " << n1 << " and " << n2 << " is
                    "<<n1+n2;
                       cout<<''\nSwapping \n'';</pre>
                       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
                       cout << n1 << " is odd \n";
                    return 0;
                    }
```

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	C:\Users\sweet\OneDrive\Documents\n1,n2,temp.exe
	enter first number
	-
Input given	
Output	C:\Users\sweet\OneDrive\Documents\n1,n2,temp.exe
Screenshot:	enter first number 77 enter second number 89 First Number=77 Second Number=89 Addition of 77 and 89 is 166 Swapping Swapped numbers n1= 89 and n2= 77 even or odd 89 is odd Process exited after 6.428 seconds with return value 0 Press any key to continue

2. TO PRINT NUMBERS ENTERED BY USER

Algorithm	
	2. Step 1: Proof rum 1, num2
	Step 3 = print rums, rums
Program :	//TO PRINT NUMBERS ENTERED BY USER
Fiogram.	7/10 FRINT NOWIDERS ENTERED BY OSER
	// Print Number
	Entered by User
	#include <iostream></iostream>
	using
	namespace
	std; int
	main()
	int num1 num2.
	int num1,num2; cout<<"\n Enter 2
	numbers";
	cin>>num1>>num2;
	cout<< " Entered numbers are:" << num1<< " "

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	<< num2; return 0; }
Input	
Given :	C:\Users\sweet\OneDrive\Documents\c++ enter 2 no.exe
	Enter 2 numbers _
Output Screenshot:	Process exited after 35.64 seconds with return value 0 Press any key to continue

3. TO SWAP TWO NUMBERS

Algorithm:	3. Step 1 = input a, b, c
	Step 2 = a = b
	Step 3 = b=c
	Step 4 = C=a
	Step 5 : print a, b
Program :	#include <iostream> using namespace std; int main()</iostream>

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	<pre>{ int n1,n2,temp; cout << "enter first number" << endl; cin >> n1; cout << "enter second number" <<endl; cin="">> n2; cout << "Swapped numbers n1= "<<n2<<" "<<n1<<endl;="" 0;="" and="" n2="" pre="" return="" }<=""></n2<<"></endl;></pre>
Input given:	■ C:\Users\sweet\OneDrive\Documents\c++ enter 2 no.exe enter first number 987 enter second number
Output Screenshot:	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

4. TO CHECK WHETHER NUMBER IS EVEN OR ODD

Algorithm:	4. Step 1: input num Step 2: rem = num/02 Step 3: if rem = 0, print ever Step 4: else print add.

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	T
Program:	// To shook whether the number is even or odd
	// To check whether the number is even or odd #include <iostream></iostream>
	using namespace std;
	using namespace stu,
	int main()
	t train()
	int num=5;
	cout<<"\n Number is"; cin>>num;
	de la contraction de la contra
	if (num % 2 == 0) cout< <num<<" else<="" even";="" is="" td=""></num<<">
	cout< <num<<" is="" odd";<="" td=""></num<<">
	, , , , , , , , , , , , , , , , , , ,
	}
Input	
given:	C:\Users\sweet\OneDrive\Documents\even odd.exe
8	
	Number is
Output	
Screenshot:	C:\Users\sweet\OneDrive\Documents\even odd.exe
	Number is 9876545687
	2147483647 is odd
	2147463047 15 Ouu
	Process exited after 21.8 seconds with return value 0
	Press any key to continue