

LAB 02

Summary

Items	Description
Course Title	Programming Fundamentals
Lab Title	Basic mathematical operations in C++
Duration	3 Hours
Operating System /Tool/Language	Visual studio
Objective	Input/output operation in C++

Sample program # 01

```
#include "stdafx.h"
#include<iostream>
using namespace std;

//int main()
int _tmain(int argc, _TCHAR* argv[])
{
    cout<<"hello"<<endl<<"world";
    system("pause");
    return 0;

}
```

Sample Program # 02

```
#include "stdafx.h"
#include<iostream>
using namespace std;

int _tmain(int argc, _TCHAR* argv[])

{ int a;
int b;
a=10;
b=20;
cout<<"a="<<a<<endl;
cout<<"b="<<b<<endl;
    system("pause");
    return 0;}
```

Sample program # 03

```
#include "stdafx.h"
#include<iostream>
using namespace std;

int _tmain(int argc, _TCHAR* argv[])
{
    cout<<"hello world"<<endl;
    int a=10;
    int b=20;
    int c;
    c=a+b;
    cout<<a<<"+"<<b<<"="<<c<<endl;
    system("pause");
    return 0;}
```

LAB TASKS

Task 1

Compile all sample programs and note down the output of each program

Task 2

Write a program that displays your name and age on the screen, age must be stored in some integer.

Sample output: my name is Ali
my age is 20

Task 3

Write a program to declare two integers, assign them random values perform the arithmetic operations Addition, subtraction and multiplication and display the result on the screen as shown in sample output.

Sample Output:

Suppose A=10 B=5

Output

Addition of 10 and 5 = 15

Subtraction of A and B is 5

10*5=50

Task 4

Write a program to declare 2 int variables and 2 float variables perform the arithmetic operations Division on float variables , modulus on int variables and display the result on the screen.

Sample Output:

Suppose A=10.0 B=3.0

C=20 D=9

Output

Division of A and B = 3.33

20 mod 9 = 2

Task 5

Write a program to assign values to two variables by assignment statement. Swap the values of both the variables:

Sample Output:

A=10

B=20

After Swapping

A=20

B=10