EXPERIMENT NUMBER –Practical 3

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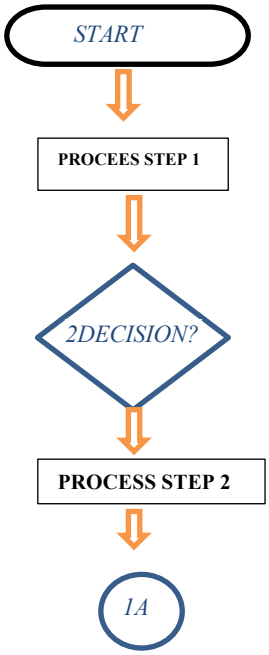
UID-20BCS2761	**DOF- 7 MARCH 2021**
BRANCH – B.TECH(CSE).	**SEC – 26 (B)**

TOPIC OF EXPERIMENT –**Question 1**- Write a program to calculate the Arithmetic Operations after declaring different functions using inline function.
Example-Addition, Subtraction, Division, Multiplication etc.

AIM OF THE EXPERIMENT- To Calculate The Arithmetic Operations

FLOWCHART/ ALGORITHM

- **Start**
- **Enter the value 1**
- **Enter the enter the value 2**
    - **Addition of two numbers**
    - **Difference of two numbers**
    - **Product of two numbers**
    - **Division of two numbers**
    - **END**



PROGRAM CODE-

```
#include <iostream>
using namespace std;
class operation
{
        int a,b,add,sub,mul;
        float div;
public:
        void get();
        void sum();
        void difference();
        void product();
        void division();
};
inline void operation :: get()
{
        cout << "Enter first value:";
        cin >> a;
        cout << "Enter second value:";
        cin >> b;
}

inline void operation :: sum()
{
        add = a+b;
        cout << "Addition of two numbers: " << a+b << "\n";
}

inline void operation :: difference()
{
        sub = a-b;
        cout << "Difference of two numbers: " << a-b << "\n";
}

inline void operation :: product()
{
        mul = a*b;
        cout << "Product of two numbers: " << a*b << "\n";
}

inline void operation ::division()
{
        div=a/b;
        cout<<"Division of two numbers: "<<a/b<<"\n" ;
}

int main()
{
        cout << "Program using inline function\n";
        operation s;
        s.get();
        s.sum();
        s.difference();
        s.product();
        s.division();
        return 0;
}
```

PROGRAM CODE- IN COMPILER

main.cpp

```
#include <iostream>
using namespace std;
class operation
{
 int a,b,add,sub,mul;
 float div;
public:
 void get();
 void sum();
 void difference();
 void product();
 void division();
};
inline void operation :: get()
{
 cout << "Enter first value:";
 cin >> a;
 cout << "Enter second value:";
 cin >> b;
}

inline void operation :: sum()
{
 add = a+b;
 cout << "Addition of two numbers: " << a+b << "\n";
}

inline void operation :: difference()
{
 sub = a-b;
 cout << "Difference of two numbers: " << a-b << "\n";
}

inline void operation :: product()
{
 mul = a*b;
 cout << "Product of two numbers: " << a*b << "\n";
}

inline void operation ::division()
{
 div=a/b;
 cout<<"Division of two numbers: "<<a/b<<"\n" ;
}
```

```
inline void operation :: product()
{
 mul = a*b;
 cout << "Product of two numbers: " << a*b << "\n";
}

inline void operation ::division()
{
 div=a/b;
 cout<<"Division of two numbers: "<<a/b<<"\n" ;
}

int main()
{
 cout << "Program using inline function\n";
 operation s;
 s.get();
 s.sum();
 s.difference();
 s.product();
 s.division();
 return 0;
}
```

ERRORS ENCOUNTERED DURING PROGRAM'S EXECUTION

(Kindly jot down the compile time errors encountered)

OUTPUT PROGRAM-

LEARNING OUTCOMES

- It will provide the modest experience that allows students to develop and improve their experimental skills and develop ability to analyzedata.
- Ability to demonstrate the practical skill on measurements and instrumentation techniques of some Physics experiments. Students will develop the ability to use appropriate physical concepts to obtain quantitative solutions to problems inphysics.
- Students will demonstrate basic experimental skills by setting up laboratory equipment safely and efficiently, plan and carry out experimental procedures, and report verbally and in written language the results of theexperiment.
- Students will develop skills by the practice of setting up and conducting an experimentwithdueregardstominimizing measurement error.

EVALUATION COLUMN (To be filled by concerned faculty only)

Sr. No.	Parameters	Maximum Marks	Marks Obtained
1.	Worksheet completion including writing learning objectives/Outcomes. (To be submitted at the end of the day)	10	
2.	Post Lab Quiz Result.	5	
3.	Student Engagement in Simulation/Demonstration/Performance and Controls/Pre-Lab Questions.	5	
4.	Total Marks	20	
5.	Teacher's Signature (with date)		