

Date ____/____/____ Experiment. No. 2

* Title : Program to perform simple mathematical calculations.

* Aim :- To write a program to perform simple mathematical calculations.

* Theory :-

Basic Data types:

C++ supports a large number of data types. The built in or basic data types supported by C++ are int, float & char. C++ also provides the data types bool for variables that can hold only the values True or false.

Variables :-

variables is a location in the computer memory which can store data & is given a symbolic name for easy reference. The variables can be used to hold different values a different times during the execution of a program.

Syntax :-

Data-type variable_name;

Example :-

int A;

Operation :-

An operator is a symbol that tells the compiler to perform specific mathematical or logical manipulator. C++ provides following types of operator.

① Arithmetic operators :-

operator	Description .
+	→ Addition .
-	→ Subtracts 2 nd from 1 st .
*	→ Multiply both oper nd
/	→ Divides N by D
%	→ remainder of after integer division .

② Relational operator .

Operator	Description .
==	→ check if value of 2 oper nd are equal or not, if yes then true.
!=	→ check if value of 2 oper nd are equal or not, if no then true.
>	→ check if value of left is greater than right, if yes then true.
<	→ check if value of left is greater than right, if no then true.
>=	→ check if value of left is greater or equal to right, if yes then true.

\leq → check if value of right is greater or equal to left, if yes then true.

③ logical operator :-

Operator	Description
&&	→ logical AND operator, if both operands are non zero then become true.
	→ logical OR operator, if any of two operands is non-zero, condition become true.
!	→ logical NOT operator. Use to reverse the logical state of operation.

④ Assignment operator :-

= → Assign values from right side operands to left side operand.

* Program :-

```
#include <iostream>
using namespace std;
```

```
void main() {
```

```
int a, b, ans, ch; // declare variable
```


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```

cout << "In 1: Add In 2: Sub In 3: Mul In 4: Div";
cout << "In Enter your choice : ";
cin << ch;
cout << "Enter two number ";
cin >> a >> b;
switch (ch)
{
    case 1:
        cout << "Ans is " << a + b;
        break;
    case 2:
        cout << "Ans is << a - b;
        break;
    case 3:
        cout << "Ans is << a * b;
        break;
    case 4:
        cout << "Ans is << a / b;
        break;
    default:
        cout << "Invalid choico : ";
}
cout << "In ";
}

```


Output :: 1: Add

2: sub

3: MUL

4: Div

Enter your choic : 1

Enter two number

10 20

Ans is 30

* Conclusion ::

By doing this practical , I come to know how to do program in C++ for different mathematical calculations .