

BASIC MATH OPERATIONS:-

(++ can be used to perform basic mathematical operations. The following program can be used to illustrate this.)

```
// Basic math operations.  
#include <iostream>  
using namespace std;  
  
int main( )  
{  
    int num1 = 5 ;  
    int num2 = 6 ;  
    int Result ;  
    int Result1 ;  
    Result = num1 + num2 ;  
    Result1 = num1 - num2 ;  
  
    cout << Result << endl ;  
    cout << Result1 << endl ;  
  
    return 0 ;  
}
```

OUTPUT:-

11

-1

- In the above program variable 1 and variable 2 are called "operands" and they are connected via different operators. Response of each operation is stored in variable result and variable resultL.
- Some basic mathematical operations are already defined in C++ • You dont need to add any library (file) in our program.

PROGRAM 1:-

Write a program to show basic math operations and take input (operands) from user.

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

int main()
{
    int num1, num2, Result1, Result2,
        Result3;
    float Result4;

    cout << "Enter the value of num1, num2";
    cin >> num1 >> num2;

    Result1 = num1 + num2;
    Result2 = num1 - num2;
    Result3 = num1 * num2;
    Result4 = num1 / num2;
```

```
cout << "Result 1 = " << Result1 << endl;
```

```
cout << "Result 2 = " << Result2 << endl;
```

```
cout << "Result 3 = " << Result3 << endl;
```

```
cout << "Result 4 = " << Result4 << endl;
```

```
return 0;
```

```
}
```

OUTPUT:-

Enter the value of num1, num2

Result 1 =

Result 2 =

Result 3 =

Result 4 =

PROGRAM 2:-

Write a program to find out
the average of three numbers.

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

```
int main() {
```

```
    int num1 = 74;
```

```
    int num2 = 76;
```

```
    int num3 = 78;
```

```
    double average;
```

```
    average = int((num1 + num2 + num3) / 3);
```

```
    cout << average;
```

```
    return 0;
```

```
}
```

OUTPUT:-

76

PROGRAM:03

Find average of three numbers by making a little difference in average formula

// using constant variable

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

```
int main( )
```

```
{
```

```
    int num1 = 74, num2 = 76, num3 = 78;
```

```
    double average
```

```
    const int numgrade = 3
```

```
    average = (num1 + num2 + num3) /
```

```
              numgrade;
```

```
    cout << average;
```

```
    return 0;
```

```
}
```

OUTPUT:-

76

ASSIGNMENT QUESTIONS:-

Q-1 :- Write a program in which you take two integers (input) from user and show their sum and difference .

// Basic Math operations
include <iostream>
using namespace std;

```
int main( )
```

```
{
```

```
int num1, num2;
```

```
cout << "Enter the value of num1:";  
cin >> num1;
```

```
cout << "Enter the value of num 2:";  
cin >> num2;
```

```
cout << "sum of num1 and num2 ="  
<< num1 + num2 << endl;
```

```
cout << "difference of num1 and num2 = ?\n";
    cout << num1 - num2 << endl;
}

return 0;
}
```

OUTPUT:-

Enter the value of num1 : ~~num1~~

Enter the value of num2 : ~~num2~~

sum of num1 and num2 = ~~sum~~

difference of num1 and num2 = ~~diff~~

Q.2

Write a program in which
you can use a symbol
as a integer.

// ASCII code characters

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

```
int main()
```

```
{
```

```
char c = 'A';
```

```
cout << "the value of c = " << c << endl;
```

```
cout << "the value of c = " << (int)c << endl;
```

```
c = c + 32;
```

```
cout << "the value of c is now " << c;
```

```
return 0;
```

```
}
```

OUTPUT:-

the value of C = A

the value of C = 65

the value of C is now 97

Q-3

Write a program in which you take two input as a integer and find their sum, difference, quotient, product, Remainder.

```
// Basic math operations
#include <iostream>
using namespace std;

int main()
{
    int a, b;
    cout << "Enter the value of a and b";
    cin >> a >> b;
    cout << "sum of a and b = " << a+b << endl;
    cout << "difference of a and b = " << a-b
        << endl;
    cout << "the product of a and b = " << a*b
        << endl;
    cout << "the quotient of a and b = " << a/b << endl;
```

```
cout << "the Remainder of a and b = " << a % b  
return 0;  
} //end;
```

OUTPUT:-

Enter the value of a and b _____

sum of a and b = _____

difference of a and b = _____

the product of a and b = _____

the quotient of a and b = _____

the Remainder of a and b = _____