

# C++ NESTED IF STATEMENTS

It is always legal to **nest** if-else statements, which means you can use one if or else if statement inside another if or else if statements.

## Syntax:

The syntax for a **nested if** statement is as follows:

```
if( boolean_expression 1)
{
    // Executes when the boolean expression 1 is true
    if(boolean_expression 2)
    {
        // Executes when the boolean expression 2 is true
    }
}
```

You can nest **else if...else** in the similar way as you have nested *if* statement.

## Example:

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

int main ()
{
    // local variable declaration:
    int a = 100;
    int b = 200;

    // check the boolean condition
    if( a == 100 )
    {
        // if condition is true then check the following
        if( b == 200 )
        {
            // if condition is true then print the following
            cout << "Value of a is 100 and b is 200" << endl;
        }
    }
    cout << "Exact value of a is : " << a << endl;
    cout << "Exact value of b is : " << b << endl;

    return 0;
}
```

When the above code is compiled and executed, it produces the following result:

```
Value of a is 100 and b is 200
Exact value of a is : 100
Exact value of b is : 200
Loading [MathJax]/jax/output/HTML-CSS/fonts/TeX/fontdata.js
```