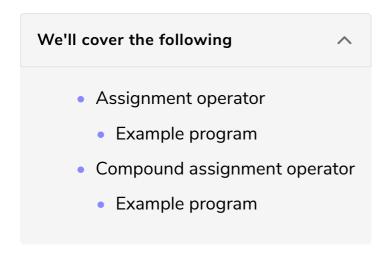
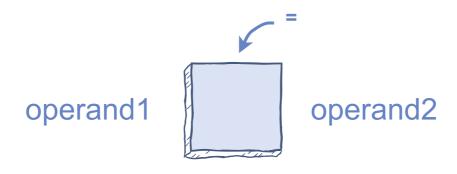
### Assignment and Compound Assignment Operator

In this lesson, you will be introduced to the functionality of the assignment and the compound assignment operator.



## Assignment operator #

The assignment operator takes the value on its right-hand side and assigns it to the operand on the left-hand side.



In C++, we have only one assignment operator.

Operator	Operation	Use
=	Assigns a value	Assigns a value of operand2 to operand1

#### Example program #

The program given below shows the use of an assignment operator.

Press the **RUN** button and see the output!

```
#include <iostream>
using namespace std;
int main() {
  //Assigns value to the operands
 int operand1 = 50;
 float operand2 = 26;
 double operand3 = 78;
 bool operand4 = true;
 char operand5 = 'A';
  string operand6 = "Welcome";
 // Prints value of the operands
 cout << "operand1 = " << operand1 << endl;</pre>
 cout << "operand2 = " << operand2 << endl;</pre>
 cout << "operand3 = " << operand3 << endl;</pre>
 cout << "operand4 = " << operand4 << endl;</pre>
 cout << "operand5 = " << operand5 << endl;</pre>
 cout << "operand6 = " << operand6 << endl;</pre>
  return 0;
```



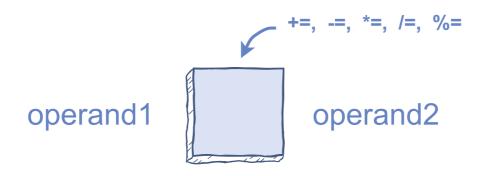




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# Compound assignment operator #

The compound assignment operator is used to perform an operation, and then assign the result to the operand on the left-hand side.



Let's see the list of compound assignment operators available in C++.

Operator	Operation	Use
+=	Addition and assignment	Adds operand1 and operand2, and then assign updated value to operand1
-=	Subtraction and assignment	Subtracts operand2 from operand1, and then assign updated value to operand1
*=	Multiplication and assignment	Multiplies operand1 and operand2, and then assign updated value to operand1
/=	Division and assignment	Divides operand1 by operand2, and then assign updated value to operand1
%=	Modulus and assignment	Returns remainder after dividing operand1 by operand2, and then assign updated value to operand1

#### Example program #

Consider two operands of type int: The value of operand1 is 50, and the value of operand2 is 26.

Run the code below to see the functionality of the compound assignment operator.

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

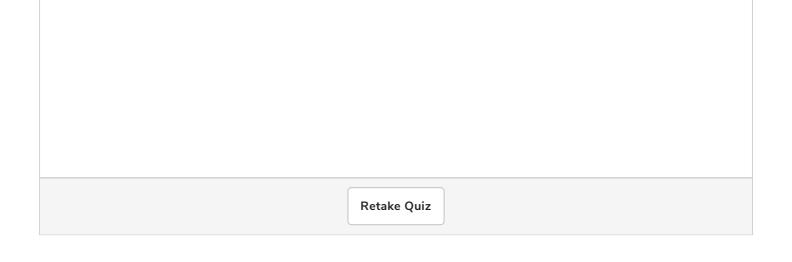
int main() {
   // your code goes here
   int operand1 = 50;
   int operand2 = 26;
   cout << "Before using compound assignment operator:" << endl;
   cout << "operand1 = " << operand1 << endl;
   operand1 += operand2;
   cout << "After using compound assignment operator:" << endl;
   cout << "Operand1 += operand2 = " << operand1 << endl;
   return 0;
}</pre>
```

Before using the assignment operator, the value of the <code>operand1</code> is <code>50</code>. The compound assignment operator <code>+=</code> first adds the value of <code>operand1</code> to the <code>operand2</code>. Then, it reassigns the new value to the <code>operand1</code>.



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```
int main() {
  int operand1 = 50;
  int operand2 = 26;
  cout << "operand1 = " << operand1 << endl;
  operand1 *= operand2;
  cout << "operand1 *= operand2 = " << operand1 << endl;
  return 0;
}</pre>
```



Let's discuss the relational operators in the upcoming lesson.

Stay tuned!