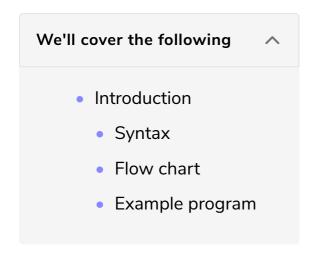
if-else Statement

In this lesson, you will get acquainted with the if-else statement in C++.



Introduction

Suppose you can buy a watch for your friend if you have at least \$20. Otherwise, you can gift them a pen.



In C++, we can demonstrate this kind of behavior using the if-else statement.

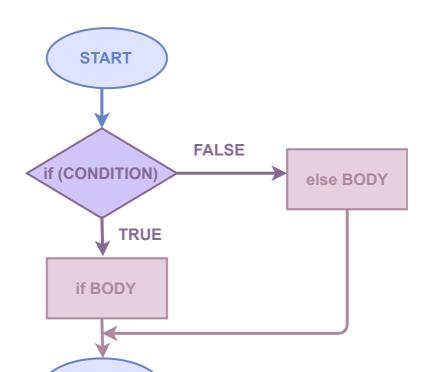
In the **if-else** statement, when the condition in an if statement evaluates to false, the compiler executes the code inside the else block.

The basic syntax of the if-else statement is given below:

```
Keyword Return type of condition is boolean
  if (condition) {
  statement 1;
  statement 2;
                                if body
  statement N;
Keyword
  else {
  statement 1;
  statement 2;
                               else body
  statement N;
```

Flow chart

The flow chart given below explains the working of the if-else statement:



In the above figure:

- If the condition in an if statement is true, the compiler executes the code inside the if body.
- If the condition in an if statement is false, the compiler executes the code inside the else body.

Example program

Let's convert the example given above into a C++ program.

Run the code below and see how the if-else statement works!



Line No. 7: Sets the value of money to 10

Line No. 9: Checks if the value of money is greater than or equal to 20. Since money is less than 20, therefore, a condition in the if statement returns 0.

Line No. 11: Prints You can gift a watch in output. The condition in the if statement is false; therefore, this line does not execute.

Line No. 14: The condition in the if statement returns 0; therefore, the code inside the else block executes, and it prints You can gift a pen to the console.

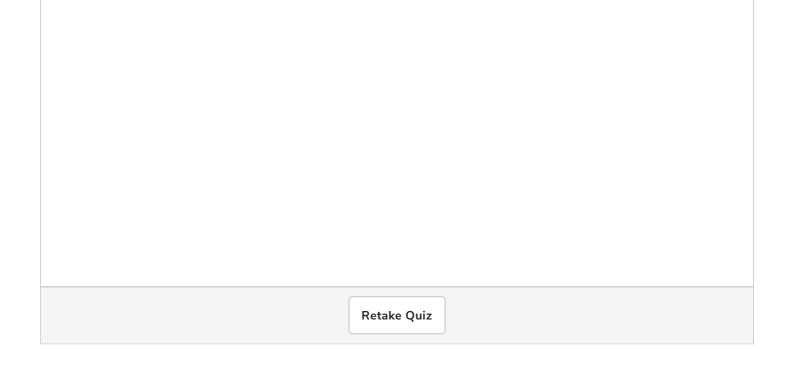


If number = 89.3, then what is the output of the following code?

```
float number;

if (number < 85.1) {
   cout << "Hey! I am less than 85.1" << endl;
} else {
   cout << "Hey! I am greater than 85.1" << endl;
}

cout << "number = " << number;</pre>
```



This sums up our discussion of the if-else statement. Let's discuss the else-if statement in the upcoming lesson.