

C# If Else Statement with Examples

In c#, **if-else** statement or condition has optional **else** statements, and these **else** statements will be executed whenever the **if** condition fails to execute.

Generally, in c# **if-else** statement, whenever the boolean expression returns **true**, the **if** statements will be executed otherwise, **else** block of statements will be executed.

Syntax of C# if-else Statement

Following is the syntax of defining **if-else** statement in c# programming language.

```
if (boolean_expression)
{
    // Statements to Execute if the boolean expression is True
}
else {
    // Statements to Execute if the boolean expression is False
}
```

If you observe the above if-else statement syntax, the statements inside the **if** condition will be executed only when the "**bool_expression**" returns **true** otherwise, the statements inside of the **else** condition will be executed.

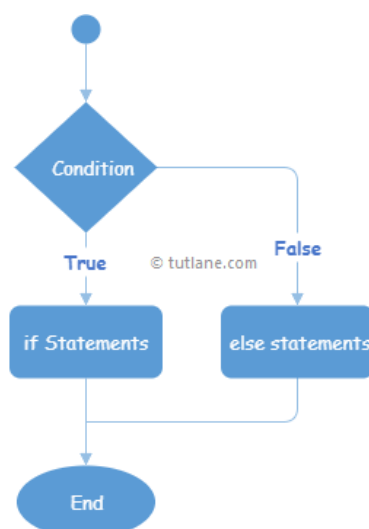
Following is a simple example of using the **if-else** statement in the c# programming language.

```
int x = 20;
if (x >= 10)
{
    Console.WriteLine("x is Greater than or equals 10");
}
else
{
    Console.WriteLine("x is less than or equals to 10");
}
```

If you observe the above example, whenever the defined condition (**x >= 10**) returns **true**, the **if** condition will be executed; otherwise, the **else** block of code will be executed.

C# If-Else Statement Flow Chart Diagram

The following flow chart diagram will represent the process flow of the c# programming language's if-else statement.



If you observe the above c# **if-else** statement flow chart, if the defined condition is true, then the statements within the **if** condition will be executed; otherwise, the statements inside the **else** block will be executed.

C# If-Else Statement Example

Following is the example of defining an **if-else** statement in c# programming language to execute the block of code or statements based on a Boolean expression.

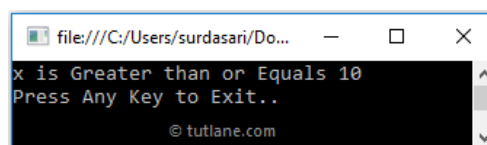
```
using System;

namespace Tutlane
{
    class Program
    {
        static void Main(string[] args)
        {
            int x = 20;
            if (x >= 10)
            {
                Console.WriteLine("x is Greater than or Equals to 10");
            }
            else
            {
                Console.WriteLine("x is Less than 10");
            }
            Console.WriteLine("Press Enter Key to Exit..");
            Console.ReadLine();
        }
    }
}
```

If you observe the above code, we defined **if-else** conditions to execute the statements based on the defined condition status, either **true** or **false**.

Output of C# If Else Statement Example

When we execute the above c# program, we will get the result below.



If you observe the above result, the Boolean expression returns **true** that's the reason only **if** block of statements has been executed and printed the statements in the console window.

This is how we can use the **if-else** statement in the c# programming language to execute the block of code or statements based on our requirements.

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