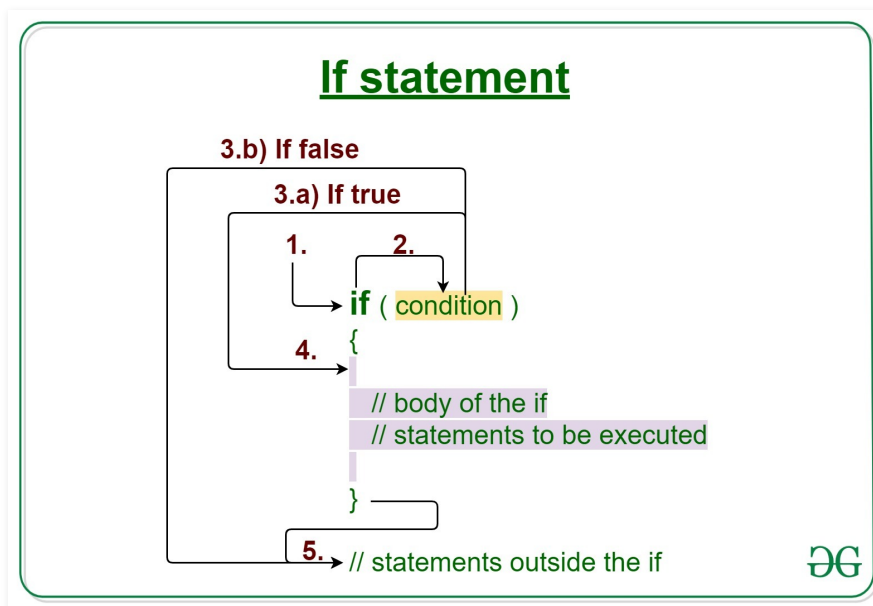# Java if statement with Examples

Difficulty Level : Medium   Last Updated : 22 Nov, 2019

Decision Making in Java helps to write decision driven statements and execute a particular set of code based on certain conditions.

The **Java if statement** is the most simple decision-making statement. It is used to decide whether a certain statement or block of statements will be executed or not i.e if a certain condition is true then a block of statement is executed otherwise not.
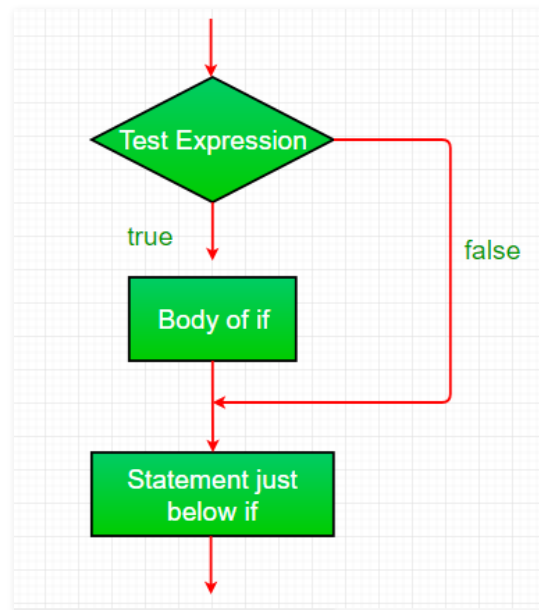

Syntax:

```
if(condition)
{
    // Statements to execute if
    // condition is true
}
```

Working of if statement

1. Control falls into the if block.
2. The flow jumps to Condition.
3. Condition is tested.
    a. If Condition yields true, goto Step 4.
    b. If Condition yields false, goto Step 5.

4. The if-block or the body inside the if is executed.

5. Flow steps out of the if block.

Flowchart if statement:

Operation:

The condition after evaluation of if-statement will be either true or false. The if statement in Java accepts boolean values and if the value is true then it will execute the block of statements under it.

Note: If we do not provide the curly braces '{' and '}' after if(condition) then by default if statement will consider the immediate one statement to be inside its block. For example,

```
if(condition)
   statement1;
   statement2;

// Here if the condition is true, if block
// will consider only statement1 to be inside
// its block.
```

Example 1:

```java
// Java program to illustrate If statement

class IfDemo {
    public static void main(String args[])
    {
        int i = 10;

        if (i < 15)
```

```java
        System.out.println("10 is less than 15");

        // This statement will be executed
        // as if considers one statement by default
        System.out.println("Outside if-block");
    }
}
```

Output:

```
10 is less than 15
Outside if-block
```

Dry-Running Example 1:

1. Program starts.
2. i is initialized to 10.
3. if-condition is checked. 10<15, yields true.
   3.a) "10 is less than 15" gets printed.
4. "Outside if-block" is printed.

Example 2:

```java
// Java program to illustrate If statement

class IfDemo {
    public static void main(String args[])
    {
        String str = "GeeksforGeeks";
        int i = 4;

        // if block
        if (i == 4) {
            i++;
            System.out.println(str);
        }

        // Executed by default
        System.out.println("i = " + i);
    }
}
```

Output:

```
GeeksforGeeks
i = 5
```

Related Articles:

1. Decision Making in Java
2. Java if-else statement with Examples
3. Java if-else-if ladder with Examples
4. Switch Statement in Java
5. Break statement in Java
6. return keyword in Java