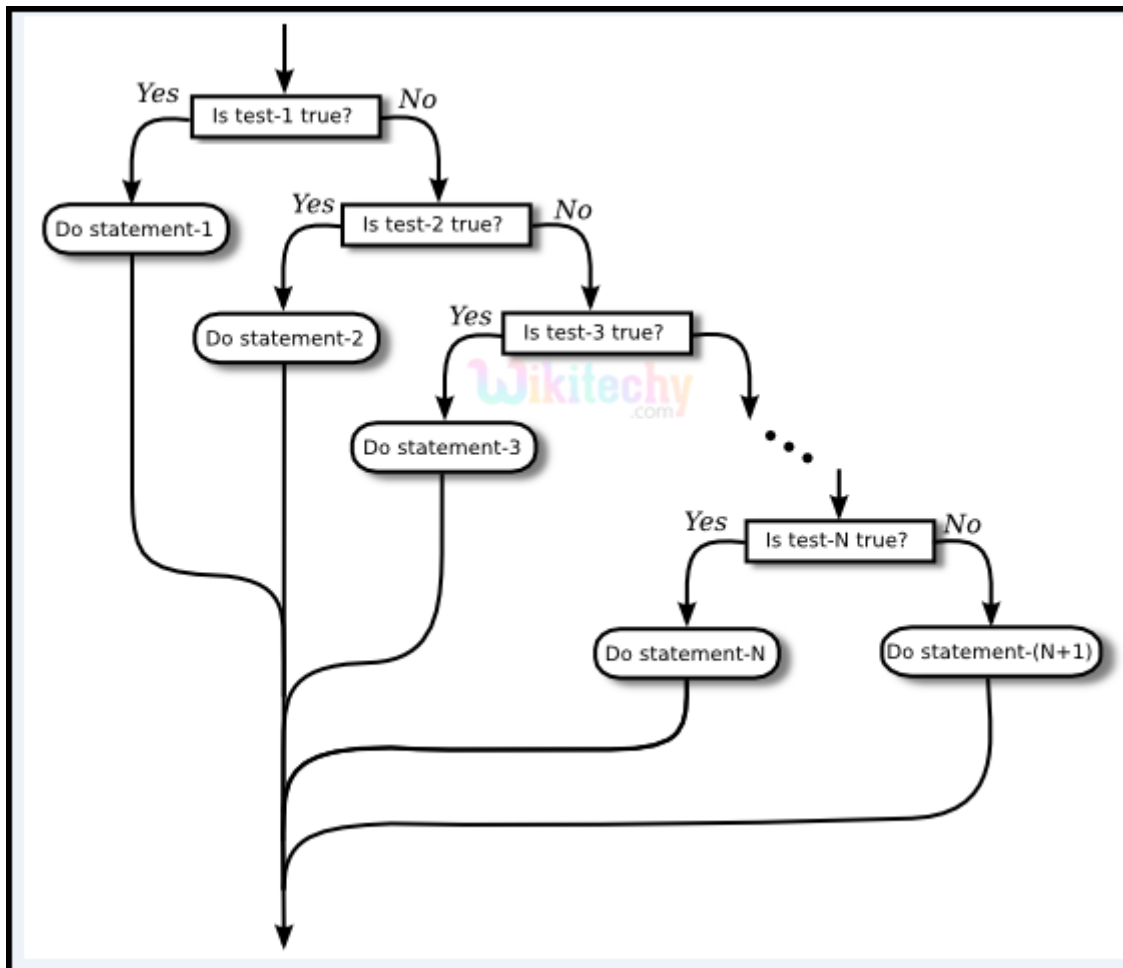


Java – If/Else/Else If statement

- ◆ Execute a **single or a block** of **statements**.
- ◆ Holds a condition with a Boolean result, to decide about continuing execution.
- ◆ Applies **conditional and relational operators** for the decision making.
- ◆ **Only if** – called as **single selection structure**.
- ◆ **If and else** – called as **double selection structure**.
- ◆ Can be nested and extended as shown below:



Java If Statement

Syntax:

```
if (condition)
{
    // code
    if (condition)        \\ nested
    {
    }
}
else if (condition)      \\ extended to next level
{
    // code
}
else if (condition)      \\ extended to next level
{
    // code
}
else
{
    // code
}
```



Sample Code:

```
public class MyIfSample
{
    public static void main(String args[])
    {
        System.out.println("\n\nWikiTechy - If Statement\n");
        int a = 20, b = 30;
        if(a > b)
        {
            System.out.println("Value of a is greater");
        }
        else if (b > a)
        {
            System.out.println("Value of b is greater");
        }
        else
            System.out.println("Values of a and b are equal");
    }
}
```

Code Explanation:

```
public class MyIfSample
{
    public static void main(String args[])
    {
        System.out.println("\n\nWikiTechy - If Statement\n");
        int a = 20, b = 30;

        if(a > b) —————→ 1
        {
            System.out.println("Value of a is greater");
        }
        else if (b > a) —————→ 2
        {
            System.out.println("Value of b is greater");
        }
        else —————→ 3
            System.out.println("Values of a and b are equal");
    }
}
```

- 1** If statement compares the value of variables a and b and returns result as a Boolean expression via the code **if (a > b)**. If the **condition is satisfied**, then the **output** in the console will be as **"Value of a is greater"**.
- 2** Extension of the **if statement** is performed via the code **else if (b > a)**. If the condition in the **else if statement is satisfied**, then the **output** will be as **"Value of b is greater"**.
- 3** The **else statement** is present here to deliver a **default code** to be executed if **none of the if or else if expressions satisfies**.

Output:

```
Administrator: Command Prompt

C:\Program Files\Java\jdk1.8.0_66\bin>javac MyIfSample.java
C:\Program Files\Java\jdk1.8.0_66\bin>java MyIfSample

WikiTechy - If Statement
Value of b is greater
C:\Program Files\Java\jdk1.8.0_66\bin>
```

- 1 Here in this java output, we have shown that the “**WikiTechy – IF Statement**” executes the **else if statement** “**Value of b is greater**” where the value of **b=30** is greater than **a=20**.