

Maya G C

[Mayagc2000@gmail.com](mailto:Mayagc2000@gmail.com)

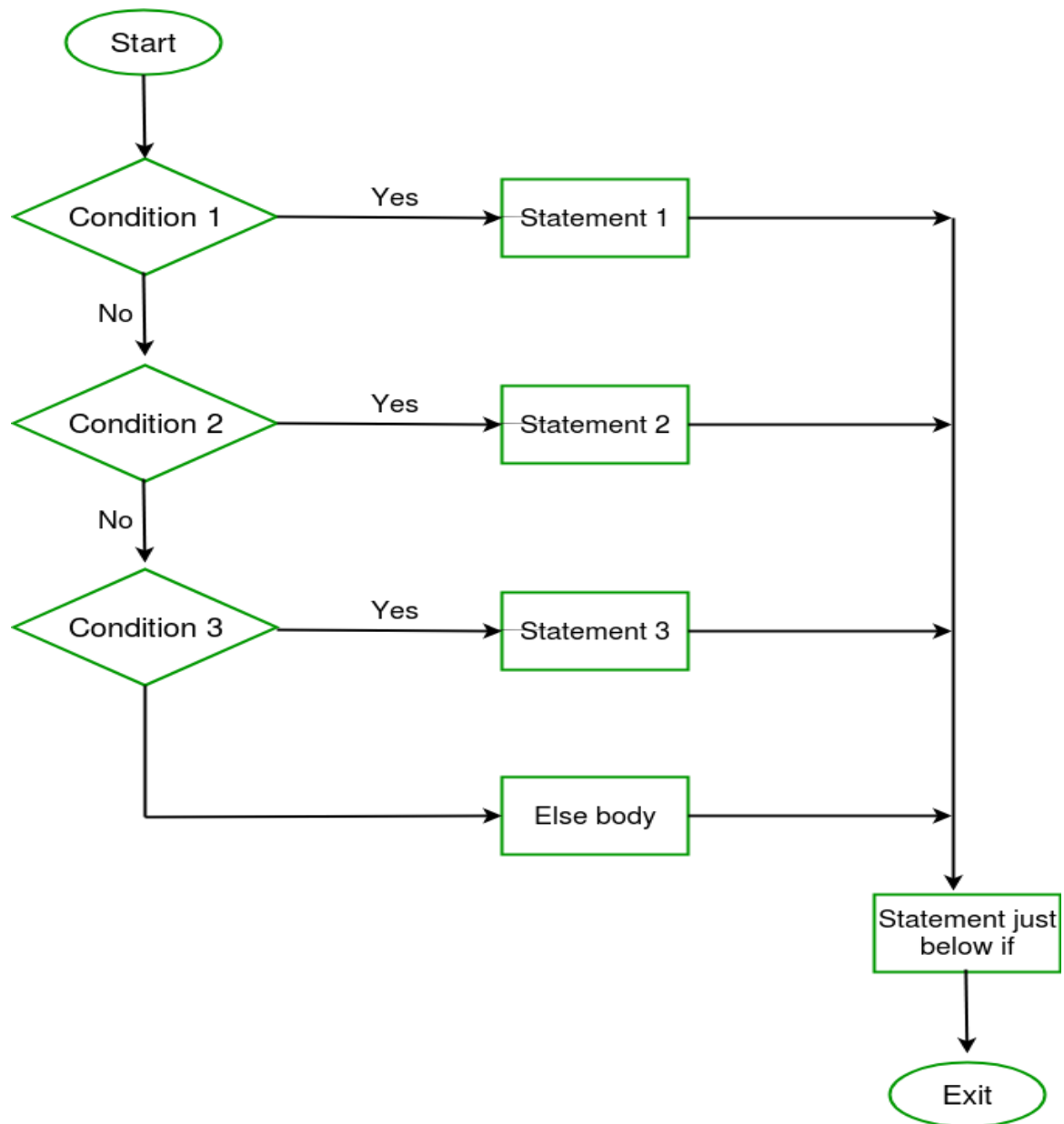
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Kodnest

## ASSIGNMENTS

Parameter	If-else	Switch
Definition	The if and else blocks are executed depending on the condition in the if statement Used for integer, character,	The switch statement has multiple cases, and the code block corresponding to that case is executed
Evaluation	pointer, floating-point type, or Boolean type.	Used for character expressions and integers.
Testing	Tests both logical expressions and equality	Tests only equality
Expression	Multiple statements for multiple decisions	Single statements for multiple decisions
Default Execution	If the condition inside the if-statement is false, then the code block under the else condition is executed	If the condition inside switch statements does not match any of the cases, the default statement is executed.
Sequence of Execution	Either the code block in the if statement is executed or the code block in the else statement.	The switch case statement performs each case until a break statement is encountered or the end of the switch statement is reached.
Speed	If you use 'if-else' to implement several options, the speed will be slow.	If we have numerous options, the switch statement is the best solution because it executes considerably faster than the 'if-else' statement.
Editing	Difficult to edit nested if-else statements.	Easy to edit.
Values	Based on constraint	Based on user

## FLOW DIAGRAM: IF ELSE



### IF ELSE CONDITIONAL CONTROL CONSTRUCT:

```
import java.io.*;
```

```
class GFG {
```

```
    public static void main(String[] args){
```

```
        int i = 20;
```

```
        if (i == 10)
```

```
            System.out.println("i is 10\n");
```

```
else if (i == 15)
```

```
    System.out.println("i is 15\n")
```

```
else if (i == 20)
```

```
    System.out.println("i is 20\n");
```

```
else
```

```
    System.out.println("i is not present\n");
```

```
System.out.println("Outside if-else-if");
```

```
    }
```

```
}
```

### Nested if condition :

Nested means within. Nested if condition means if-within-if. Nested if condition comes under **decision-making statement in Java**. There could be infinite if conditions inside an if condition. The below syntax represents the Nested if condition.

### Syntax :

```
if(condition ){  
  
    if(condition){  
  
        if(condition){  
  
            .....  
  
        }  
  
    }  
  
}
```

## NESTED IF CONDITION:

```
import java.util.*;

import java.lang.*;

import java.io.*;

class GFG

{

    public static void main(String args[])

    {

        int a=10;

        int b=20;

        if(a==10){

            if(b==20){

                System.out.println("GeeksforGeeks");

            }

        }

    }

}
```

## NESTED IF ELSE CONDITION:

We saw how helpful if and else statements are, but what if we need to check for more conditions even when one condition is satisfied? In such cases, we use nested if-else statement. Nesting is the practice of enclosing several if-else statements within an if-and-else statement.

If (condition)

```
{

    Statement1;
```

```
}
```

```
Else
```

```
{
```

```
    Statement2;
```

```
}
```

```
import java.util.*;
```

```
import java.lang.*;
```

```
class GFG
```

```
{
```

```
    public static void main(String args[])
```

```
    {
```

```
        int a=10;
```

```
        int b=20;
```

```
        if(a==10){
```

```
            if(b!=20){
```

```
                System.out.println("GeeksforGeeks");
```

```
            }
```

```
        else{
```

```
            System.out.println("GFG");
```

```
        }
```

```
    }
```

```
}
```

```
}
```