

Nested simple if and nested if-else

Sunkara Someswari

sunkarasomeswari2003109@gmail.com

ASSIGNMENT

Simple if:

Generally if condition works like yes or no type. If the condition satisfies, it executes some block of code. Otherwise, it doesn't execute the code. Let us see the syntax of the simple if condition.

Syntax:

```
If(condition){  
    statement;  
}
```

Nested simple 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 condition inside an if condition. The below syntax represents the nested if condition.

Syntax:

```
If(condition){  
    If(condition){  
        If(condition){  
            .....  
        }  
    }  
}
```

Note: if the inner condition is satisfied then only outer if executed.

Nested simple if and nested if-else

Along with if conditions we can write else conditions also.

Example:

```
package NeteSimpleIf;
```

```
public class NetedSimpleIf {  
    public static void main(String[] args) {  
  
        int a=10;  
        int b=20;  
  
        if(a==10){  
  
            if(b!=20){  
                System.out.println("Welcome to kodnest");  
            }  
  
            else {  
                System.out.println(" hi welcome ");  
            }  
        }  
    }  
}
```

Output: hi welcome

Nested if-else:

Nested simple if and nested if-else

If else: Before we going to nested if-else statement, we can revise if else statement. An if-else statement is a conditional statement that decides the execution path based on whether the condition is true or false. In other words, an if-else statement is used to carryout a particular task based on whether or not a defined condition is true.}}

Syntax:

```
If (condition) {  
Statement1; //true case  
}  
else (condition){  
Statement2; //false case  
}
```

Nested if-else:

Nesting is the process of enclosing several if-else statements within an if-and-else statement.

Syntax:

```
If (condition) {  
    If (condition) {  
        Statement;  
    }  
    else (condition){  
        Statement;  
    }  
else (condition){  
Statement;  
}
```

Nested simple if and nested if-else

```
}
```

Example:

```
if)
package firstpackage;

import java.util.Scanner;

public class Nestedelseif {
    public static void main(String[] args) {
        Scanner scan=new Scanner(System.in);
        System.out.println(" enter a number");
        int n=scan.nextInt();

        if (n % 2 == 0){

            System.out.print("Even ");

            if (n % 6 == 0) {
                System.out.println("and divisible by 6");
            } else {
                System.out.println("and not divisible by 6");
            }
        }
        else {
            System.out.println("Odd ");

            if(n % 3 == 0) {
                System.out.println("and divisible by 3");
            } else {
                System.out.println("and not divisible by 3");
            }
        }
    }
}
```

Outpur:

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Nested simple if and nested if-else

Enter a number

53

Odd

and not divisible by 3

}

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