

Beginners Book: Java Basics

Lesson 7: if, if else Statements In Java

if Statement:

An if statement consists of a condition, followed by statement or a set of statements.

Example:

```
if(condition) {  
    Statement(s) ;  
}
```

The statements gets executed only when the given condition is true. If the condition is false then the statements inside if statement body are completely ignored.

Nested if Statement:

When there is an if statement inside another if statement then it is called the nested if statement.

Example:

```
if(condition_1) {  
    Statement1(s) ;  
  
    if(condition_2) {  
        Statement2(s) ;  
    }  
}
```

Statement1 would execute if the condition_1 is true. Statement2 would only execute if both the conditions(condition_1 and condition_2) are true.

if else Statement:

An if else statement is essentially an if statement followed by an else function with a statement.

Example:

```
if(condition) {  
    Statement(s) ;  
}  
else {  
    Statement(s) ;  
}
```

The statements inside “if” would execute if the condition is true, and the statements inside “else” would execute if the condition is false.

if-else-if Statement:

An if-else-if statement is used when we need to check multiple conditions. In this statement we have only one “if” and “else”, however we can have multiple “else if”. It is also known as if else if ladder. This is how it looks:

Example:

```
if(condition_1) {  
    /*if condition_1 is true execute this*/  
    statement(s);  
}  
else if(condition_2) {  
    /* execute this if condition_1 is not met and  
    * condition_2 is met  
    */  
    statement(s);  
}  
else if(condition_3) {  
    /* execute this if condition_1 & condition_2 are  
    * not met and condition_3 is met  
    */  
    statement(s);  
}  
.  
.  
.  
else {  
    /* if none of the condition is true  
    * then these statements gets executed  
    */  
    statement(s);  
}
```

******It is important to note that in if-else-if statements, as soon as the condition is met, the corresponding set of statements get executed and following are ignored. If none of the condition is met then the statements inside “else” gets executed.