**Practical No.2**

**Name**: Anuj Rajendra Mane

**Div**: SY A

**Roll No**: 65 **Batch**: A3

**PRN** **No**: 2162701242054

##### Title: Program on Control Statements (if-else)

**If, If..else Statement in Java**

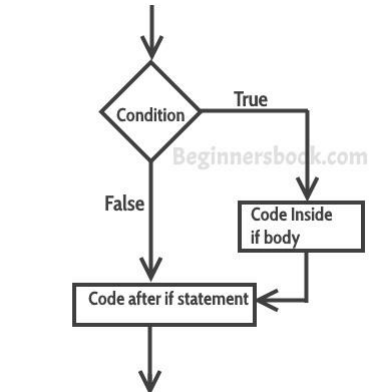
When we need to execute a set of statements based on a condition then we need to use control flow statements. For example, if a number is greater than zero then we want to print “Positive Number” but if it is less than zero then we want to print “Negative Number”. In this case we have two print statements in the program, but only one print statement executes at a time based on the input value. We will see how to write such type of conditions in the java program using control statements.

such type of conditions in the java program using control statements. In this tutorial, we will see four types of control statements that you can use in java programs based on the requirement: In this tutorial we will cover following conditional statements:

1. if statement
2. nested if statement
3. if-else statement
4. if-else-if statement

* **If statement**

If statement consists a condition, followed by statement or a set of statements as shown below:



**Syntax:**

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.

**Example of if statement**

public class IfStatementExample {

public static void main(String args[]){

int num=70;

if( num < 100 ){

/\* This println statement will only execute,

\* if the above condition is true \*/

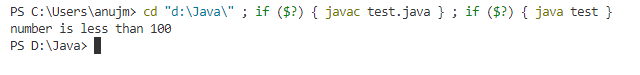
System.out.println("number is less than 100");

}

}

}

**Output**:



**Example:**

If selection statement is used when we want to execute a condition. But if-else selection used in to execute in both conditions. It is used in student marking system records, employee salary depends on his/her records.

* **Nested if statement in Java**

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

The structure of nested if looks like this:

**Syntax:**

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.

**Example of Nested if statement**

public class NestedIfExample {

public static void main(String args[]) {

int num = 70;

if (num < 100) {

System.out.println("number is less than 100");

if (num > 50) {

System.out.println("number is greater than 50");

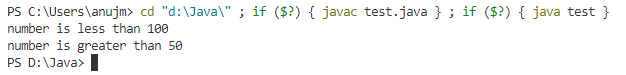
}

}

}

}

**Output:**

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* **If else statement in Java**

This is how an if-else statement looks:

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.

**Example of if-else statement**

public class IfElseExample {

public static void main(String args[]) {

int num = 120;

if (num < 50) {

System.out.println("num is less than 50");

} else {

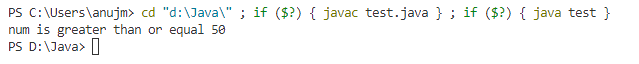
System.out.println("num is greater than or equal 50");

}

}

}

**Output**:

**Conclusion:**

I canlearn the control statements In java. Also learning the theory of if, if-else, else-if , nested if and programmes of these concept.

**Completion Date: Co-Ordinator Sign:**