Java Lesson Notes Week-13

for loop

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for Loop in Java

Execute a sequence of statements multiple times and abbreviates the code that manages the loop variable.
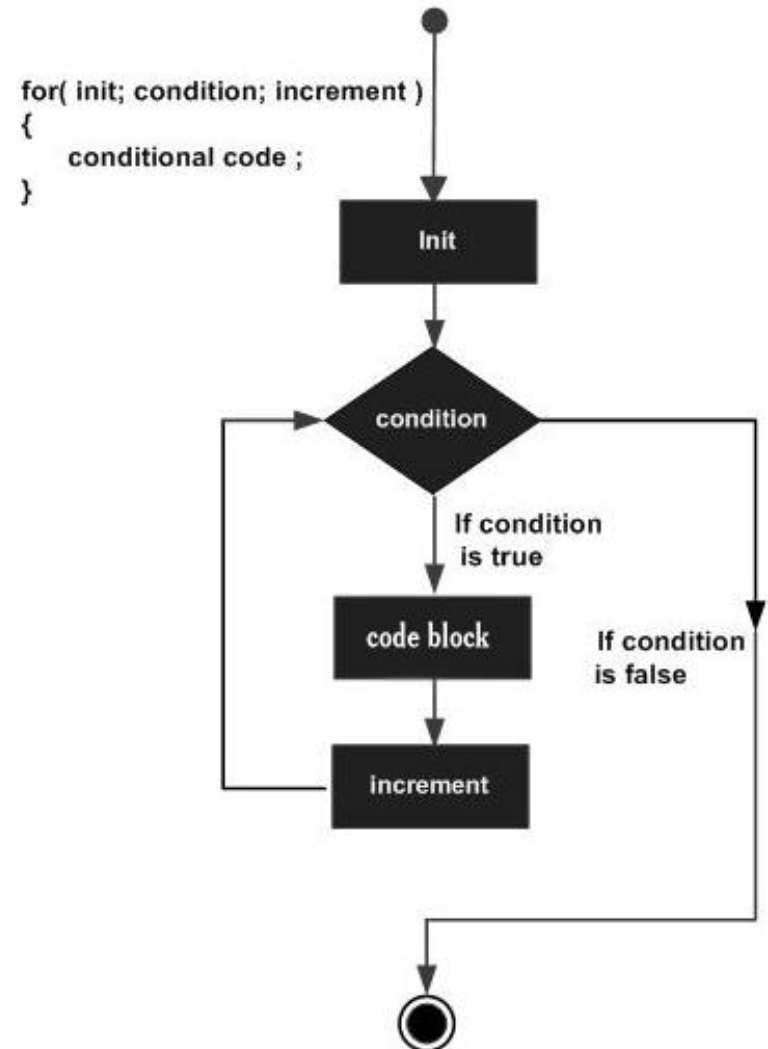
for Loop in Java

Syntax

The syntax of a for loop is −

```
for(initialization; Boolean_expression; update) {
    // Statements
}
```

A **for** loop is a repetition control structure that allows you to efficiently write a loop that needs to be executed a specific number of times.

A **for** loop is useful when you know how many times a task is to be repeated.

Flow Diagram


```
for( init; condition; increment )
{
    conditional code ;
}
```

for Loop Example

Example

Following is an example code of the for loop in Java.

```java
public class Test {

    public static void main(String args[]) {

        for(int x = 10; x < 20; x = x + 1) {
            System.out.print("value of x : " + x );
            System.out.print("\n");
        }
    }
}
```

for Loop Example

This will produce the following result −

Output

```
value of x : 10

value of x : 11

value of x : 12

value of x : 13

value of x : 14

value of x : 15

value of x : 16

value of x : 17

value of x : 18

value of x : 19
```