

## Loops used in Java

Reference site: <https://www.developer.com/design/using-different-types-of-java-loops-looping-in-java/#:~:text=out%20TechRepublic%20Academy!-,Looping%20in%20Java,while%20statements.>

- 1) There are three basic loops used in Java: For, While, and Do-While. The For loop takes three parameters for its condition, initial value of the counter, the range where the condition remains true (loop condition), and the range by which the counter is incremented or decremented. The While and Do-While loops only take one parameter – the loop condition, the range where the counter remains valid and the condition remains true (e.g.  $i < 10$ ,  $x \geq 0$ , etc.) For and While loops check their loop conditions before executing a loop. Do-While loops will execute one loop BEFORE checking the loop condition.
- 2) The syntax of the For loop is:  
for (initialization; loop condition; increment/decrement) { loop body }  
an example might look like this:

```
for (int i = 0; i <= x; i++) {  
    System.out.println(i);  
}
```

This will print values of  $i$  to the console from 0 to  $x$ .