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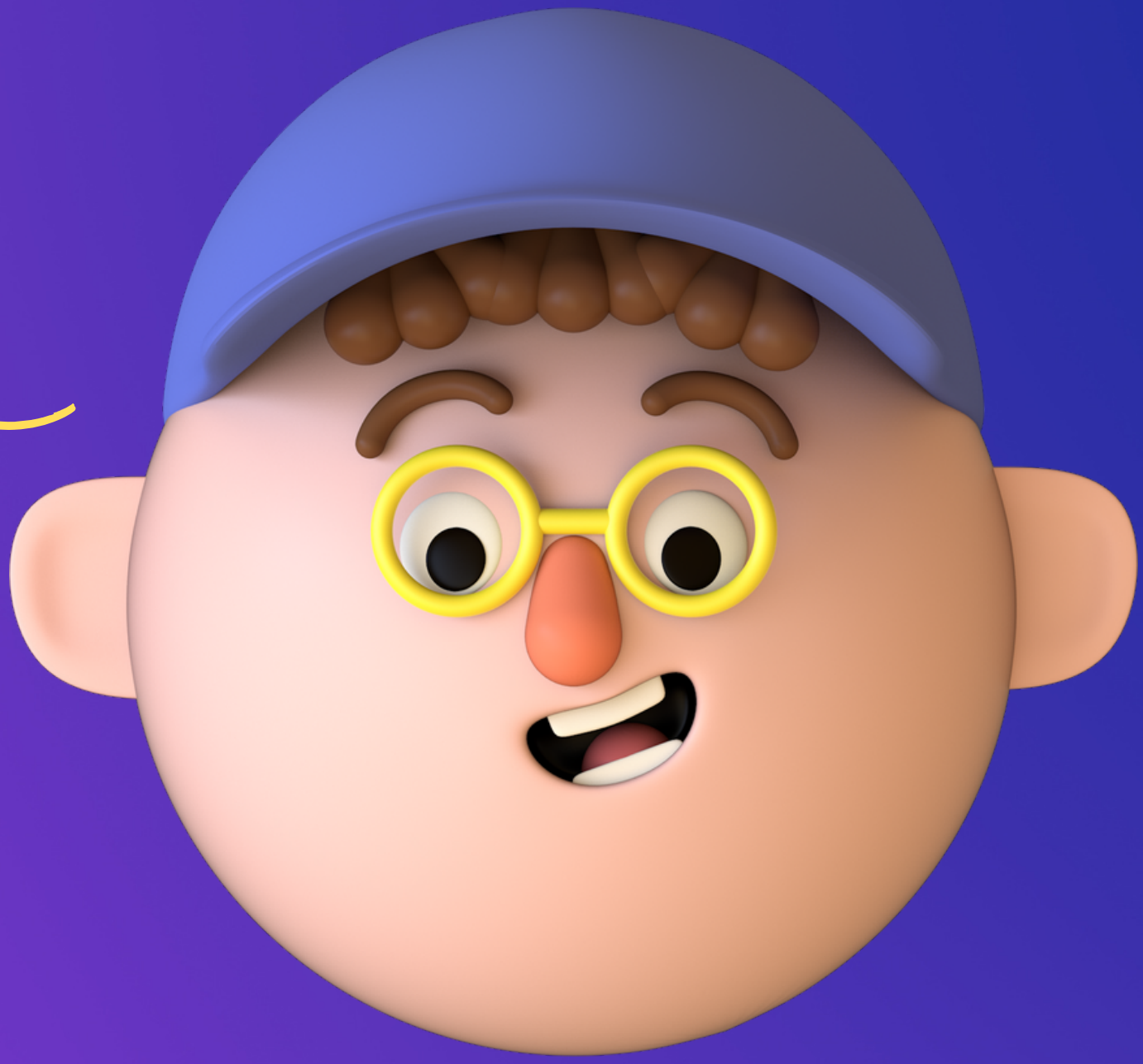
JAVA LOOPS IN JAVA

Art by-
pm



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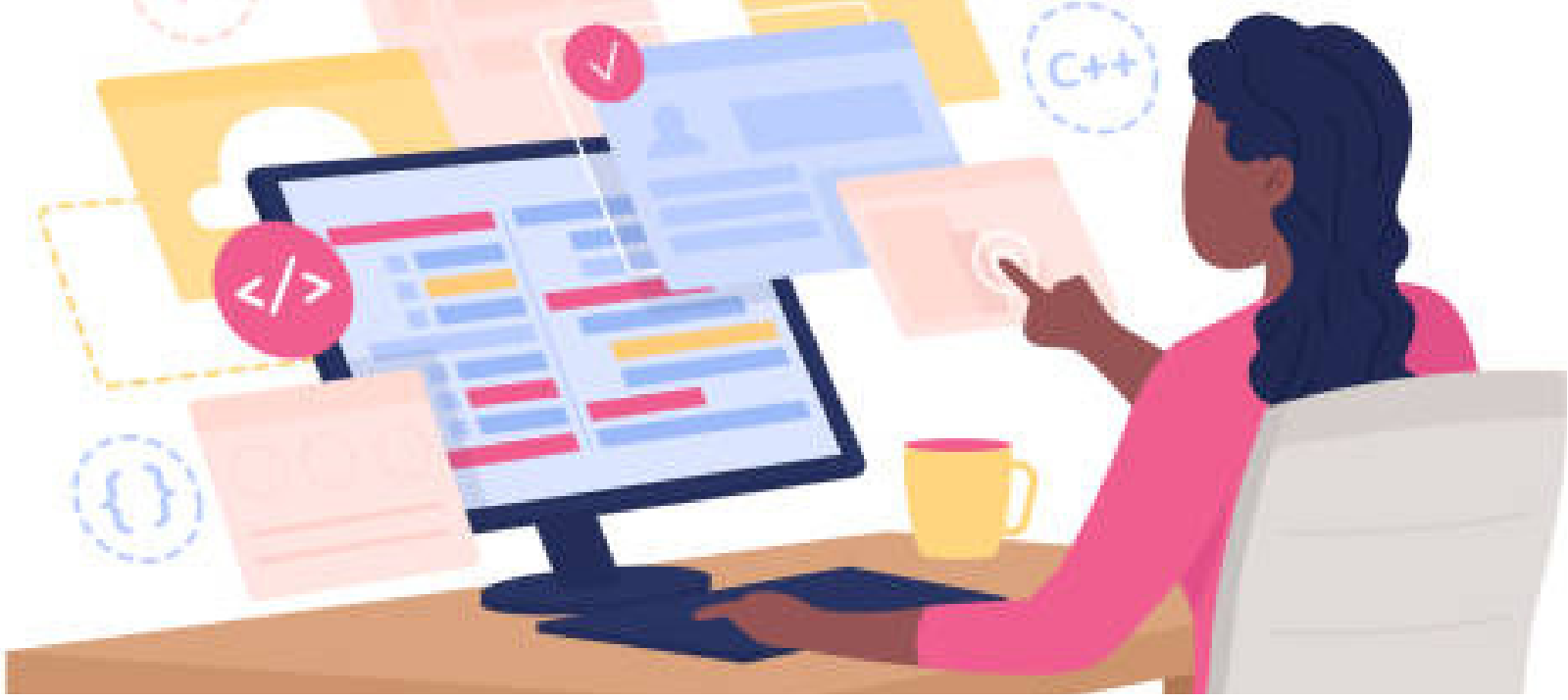
FOR LOOP :-

The for loop is a control flow statement that repeats a block of code a specific number of times.

It is a versatile statement that can be used to implement a variety of looping tasks.



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Syntax of a for loop:-

Syntax.java

```
for (initialization; condition;
update) {
  // block of code to be executed
repeatedly
}
```

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The initialization statement is executed once, before the loop starts. The condition statement is evaluated before each iteration of the loop. If the condition is true, the block of code is executed. If the condition is false, the loop terminates. The update statement is executed after each iteration of the loop.

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Example:-

ForLoopExample.java

```
public class ForLoopExample {

 public static void main(String[] args) {

 // This for loop will print the numbers
from 1 to 10.
 for (int i = 1; i <= 10; i++) {
 System.out.println(i);
 }
 }
}
```

initialized

Update

condition

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Example Explanation:-

This code will first initialize the variable i to 1.
Then, the loop will start. The condition i <= 10 will be evaluated.
If the condition is true, the block of code will be executed.
The block of code will print the current value of i.
Then, the value of i will be incremented by 1.
The loop will then repeat.
The process will continue until the condition i <= 10 is false.
When the condition is false, the loop will terminate.

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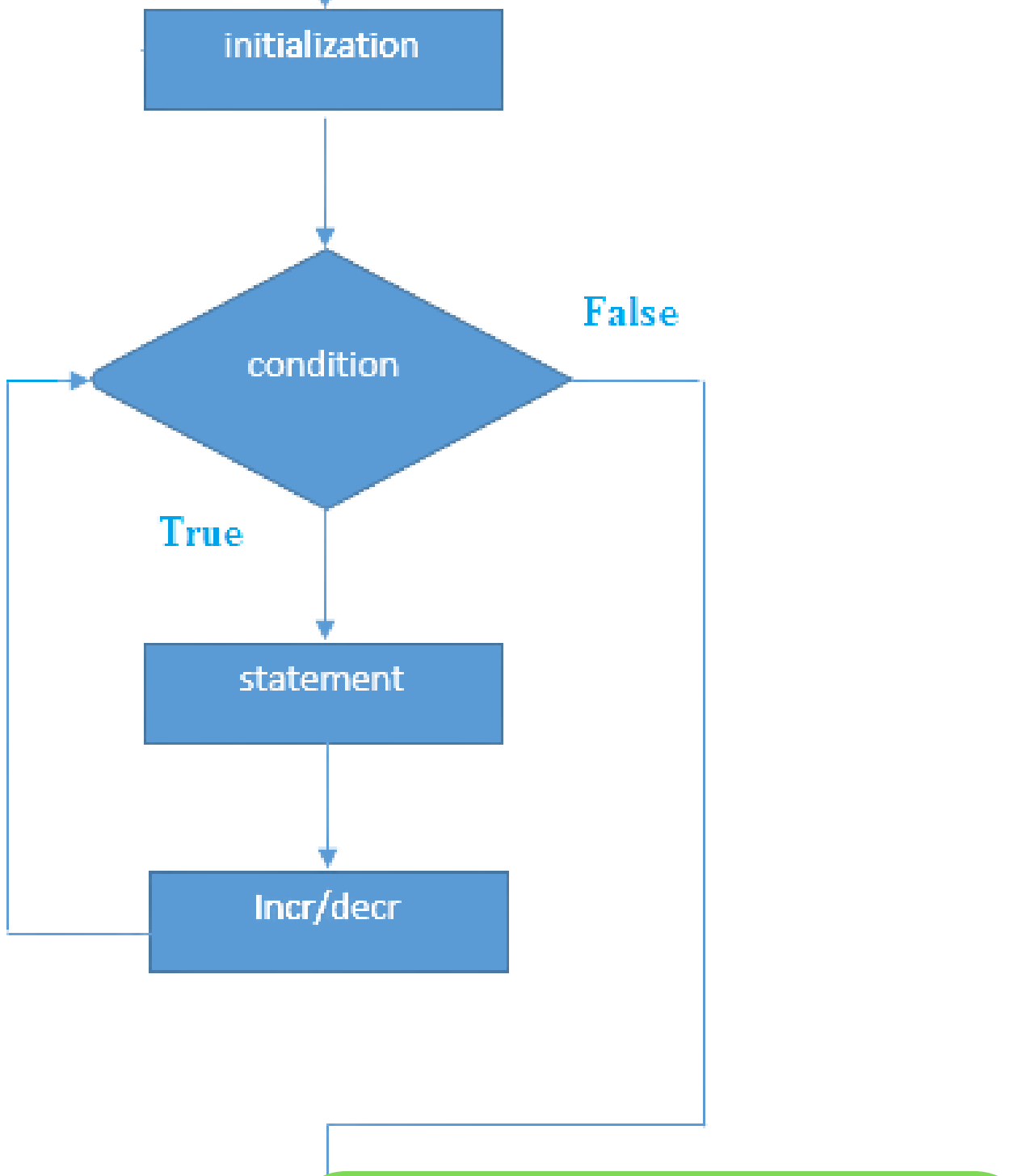
For Loop Flowchart:-



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For Loop Flowchart:-

Here is an explanation of the flowchart:

- The start node represents the beginning of the loop.
- The initialization statement node represents the statement that is executed once, before the loop starts.
- The condition statement node represents the statement that is evaluated before each iteration of the loop.
- The block of code node represents the code that is executed repeatedly.
- The update statement node represents the statement that is executed after each iteration of the loop.
- The end node represents the end of the loop.

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