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# JAVA LOOPS IN JAVA

Art by-  
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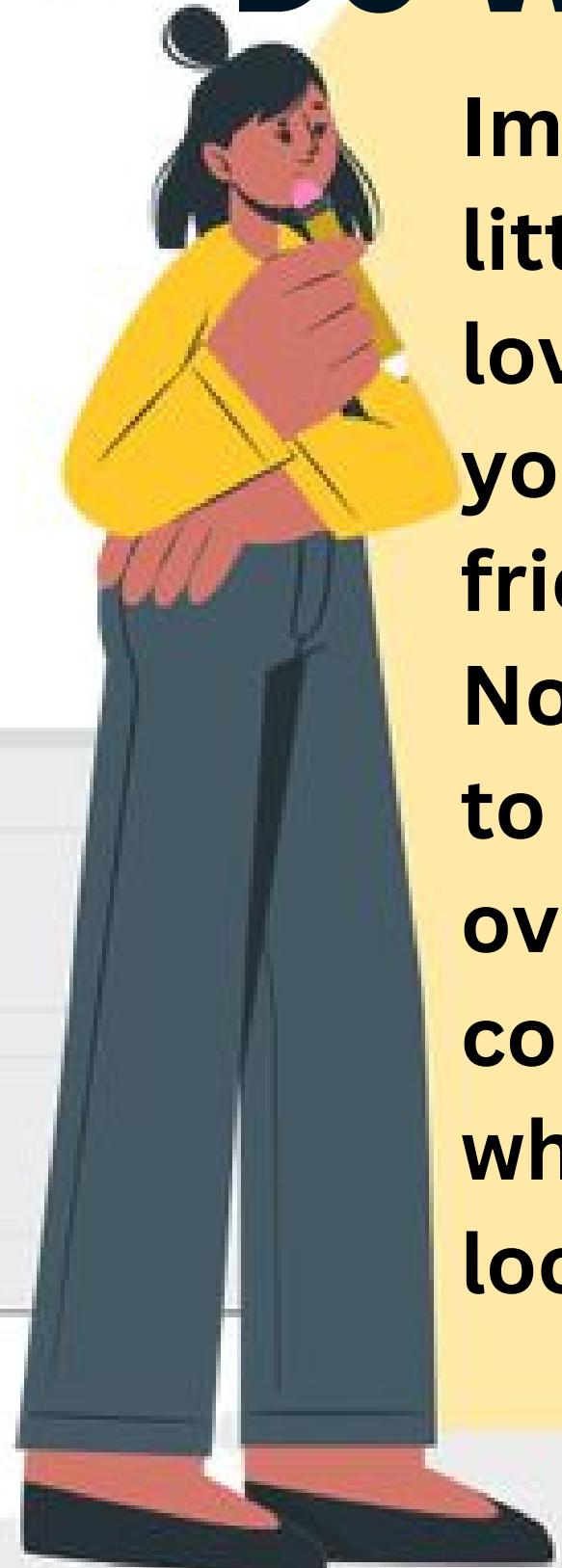
## Do While LOOP :-

A **do-while loop** is a type of loop in programming that repeats a block of code until a certain condition is met.

Unlike other types of loops, a do-while loop will always execute the block of code at least once, even if the condition is false.



# Do While LOOP



Imagine you have a cute little robot friend who loves playing a game with you. Let's call your robot friend "Robo-Buddy." Now, Robo-Buddy wants to do something over and over again until a certain condition is met. This is where the "Do-While" loop comes in!



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# Syntax :-



Syntax.java

```
do {  
    // Robo-Buddy's action (What  
    Robo-Buddy will do)  
} while (condition);
```

#Quote #Programming #Selfcare



A "Do-While" loop has two essential parts:

1. **The "do" part: This is where Robo-Buddy will do something repeatedly.**
2. **The "while" part: This is the condition that Robo-Buddy checks before deciding whether to keep playing the game or stop.**



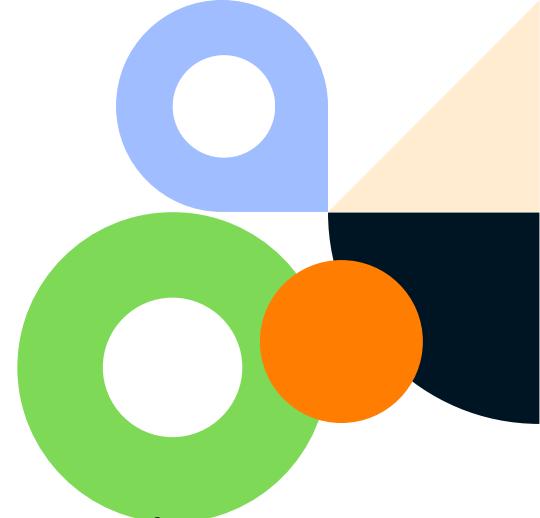
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# Example:-



RoboBuddyGame.java

```
public class RoboBuddyGame {  
    public static void main(String[] args) {  
        int number = 1; // Robo-Buddy starts counting from 1  
        do {  
            // Robo-Buddy counts and says the number out loud  
            System.out.println("Robo-Buddy says: " + number);  
  
            number++; // Robo-Buddy adds 1 to the current  
            number to get the next number  
        } while (number <= 5); // Robo-Buddy keeps playing  
        until the number is less than or equal to 5  
    }  
}
```



# Example Explanation:-

1. We create a class called **RoboBuddyGame** to contain our game code.
2. Inside the main method, we declare and initialize an integer variable **number** with a value of 1. This is where Robo-Buddy starts counting.
3. The do-while loop is used to make sure Robo-Buddy says the numbers at least once and continues counting until the condition inside the while part becomes false.
4. Inside the loop, we use **System.out.println()** to display the message "Robo-Buddy says: " followed by the value of **number**.
5. After displaying the message, we increment the value of **number** by 1 using the **number++** statement. This ensures that Robo-Buddy moves to the next number.
6. The loop continues until the condition **number <= 5** becomes false. Once **number** becomes 6, the loop stops, and the game ends.



## Example Output:-

Robo-Buddy says: 1

Robo-Buddy says: 2

Robo-Buddy says: 3

Robo-Buddy says: 4

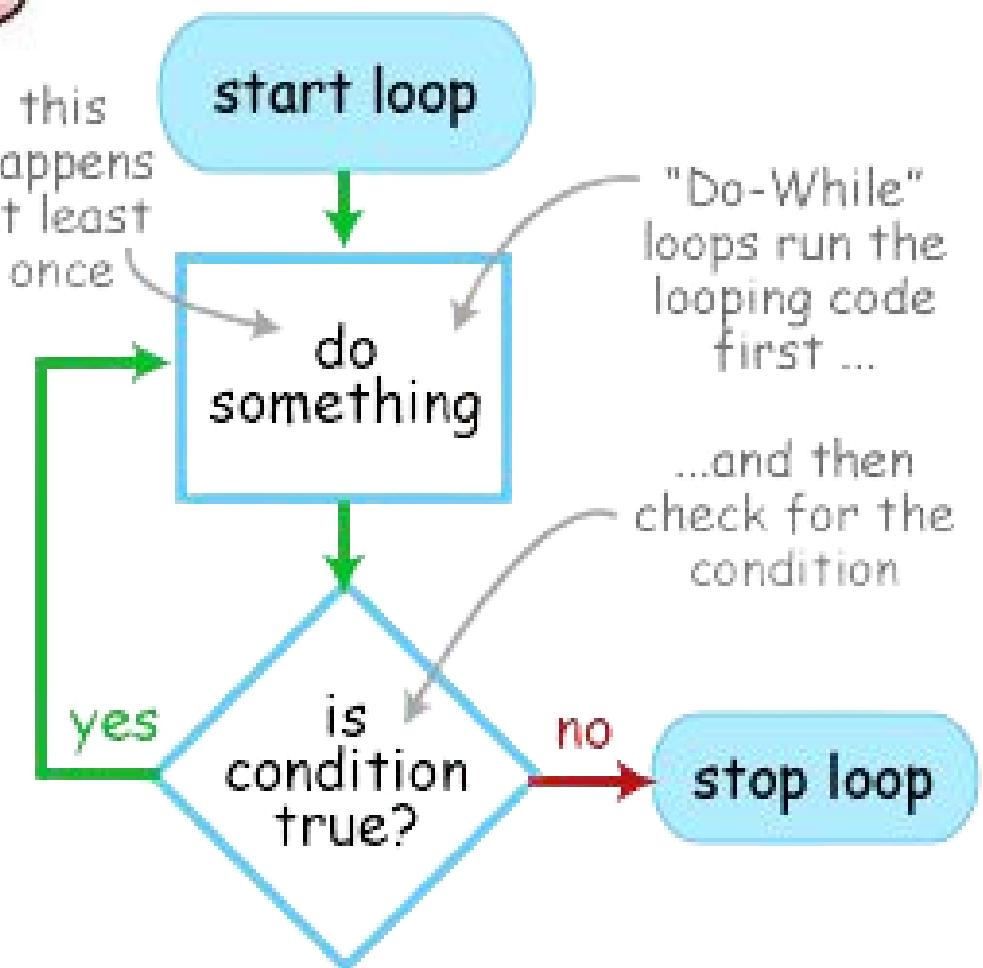
Robo-Buddy says: 5





# Flowchart:-

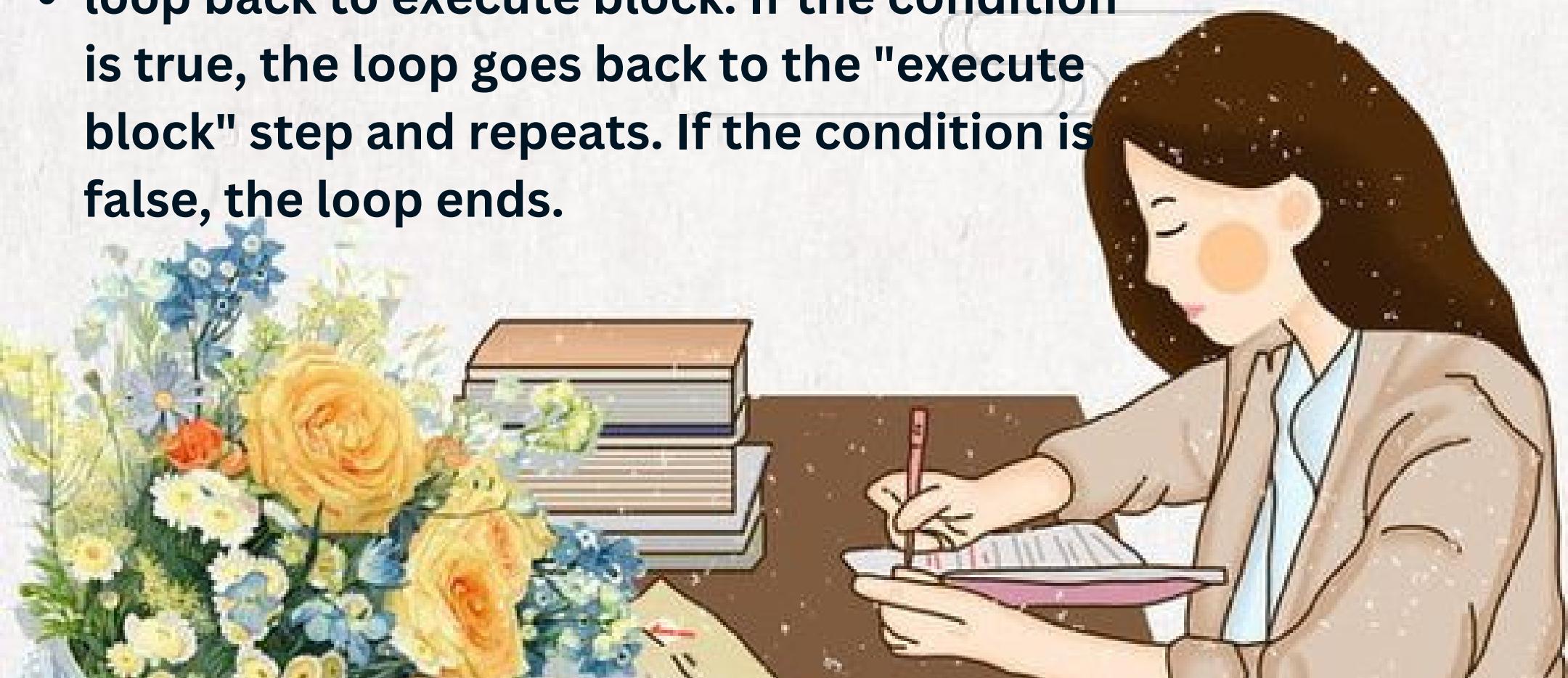
## Do-While Loop



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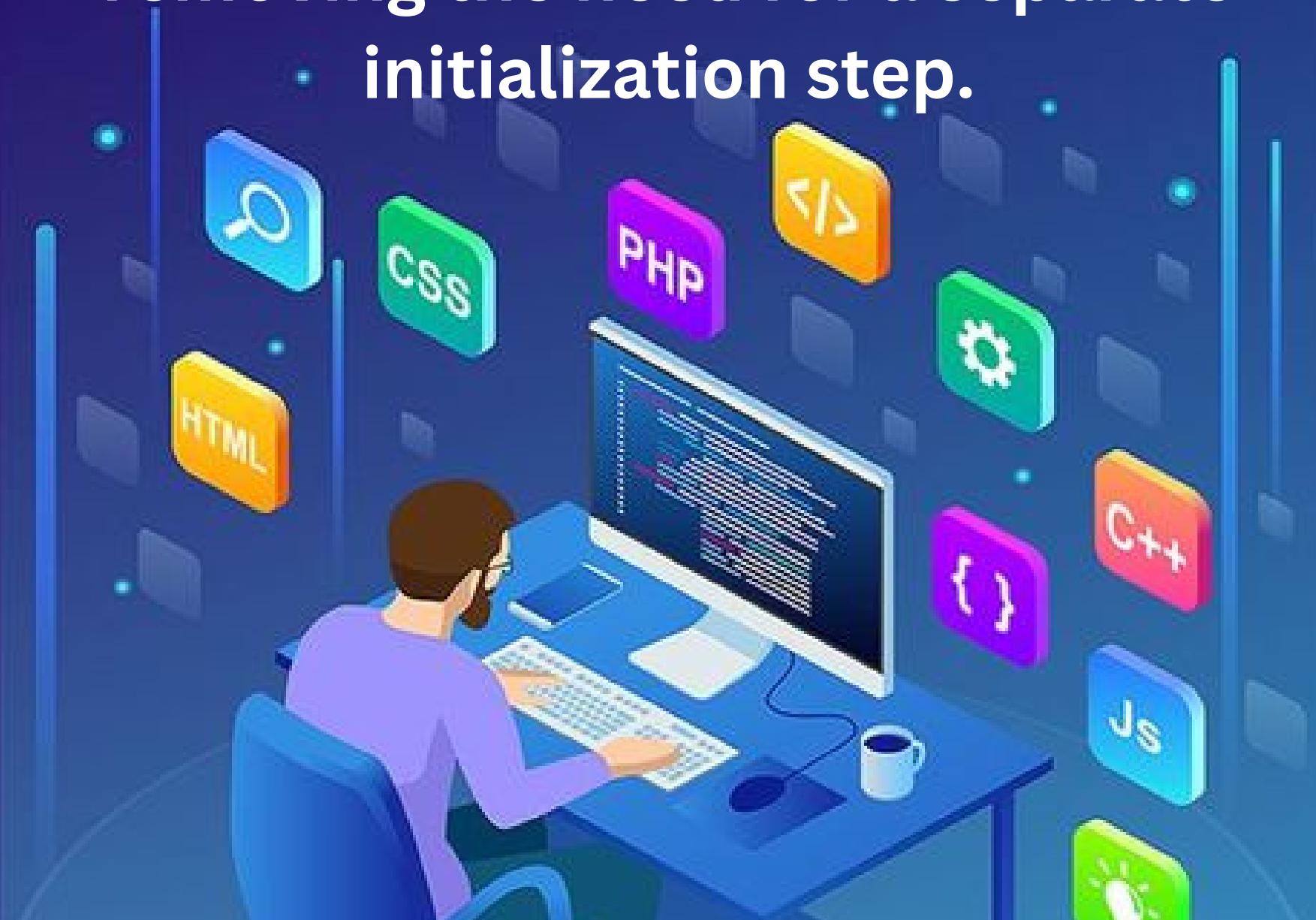
# Explanation :-

- **start:** This is the starting point of the flowchart.
- **execute block:** This is the block of code that is executed.
- **check condition:** This checks the condition of the loop.
- **condition true?:** This checks whether the condition is true or false.
- **loop back to execute block:** If the condition is true, the loop goes back to the "execute block" step and repeats. If the condition is false, the loop ends.



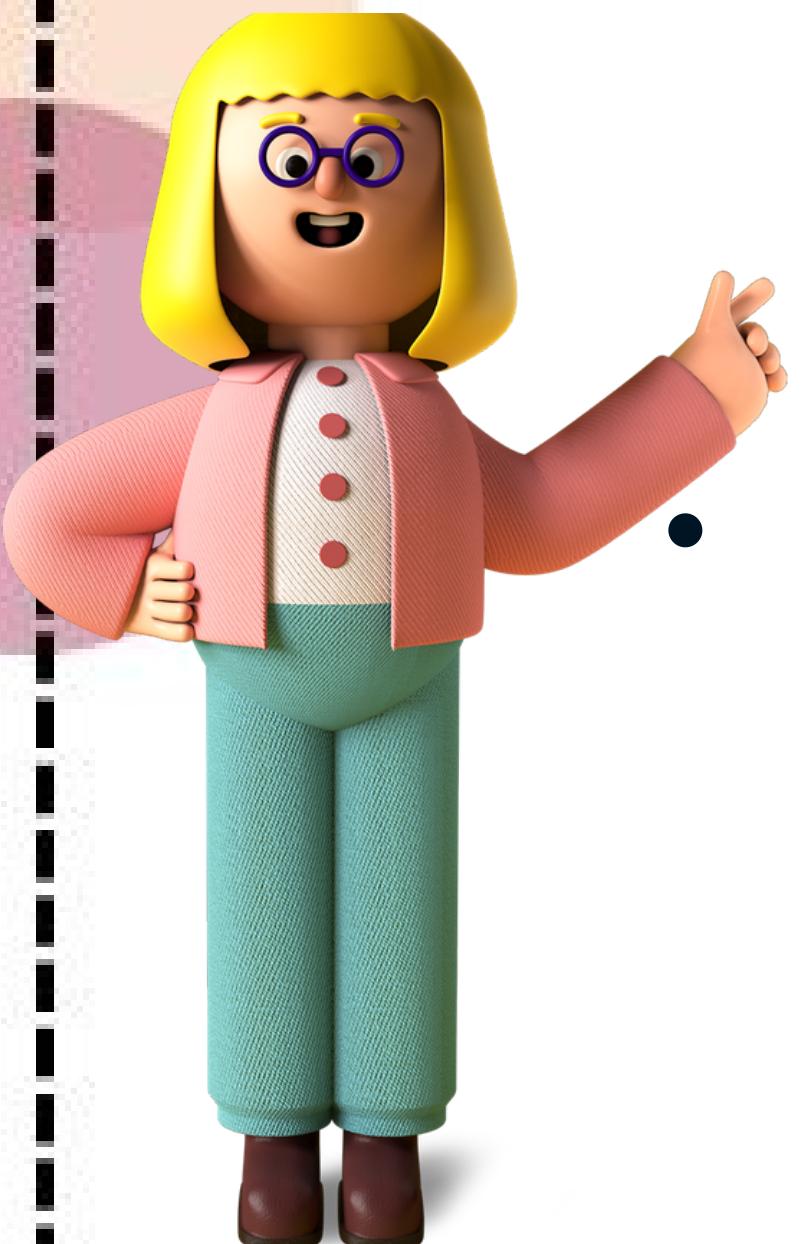
# Advantages:-

- A do-while loop will always execute the block of code at least once, which can be useful in certain situations.
- A do-while loop can simplify code by removing the need for a separate initialization step.



# Disadvantages:-

- A do-while loop can be less efficient than other types of loops, because it always executes the block of code at least once, even if the condition is false.
- A do-while loop can be more difficult to read and understand than other types of loops.





# Was This Helpful?

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