



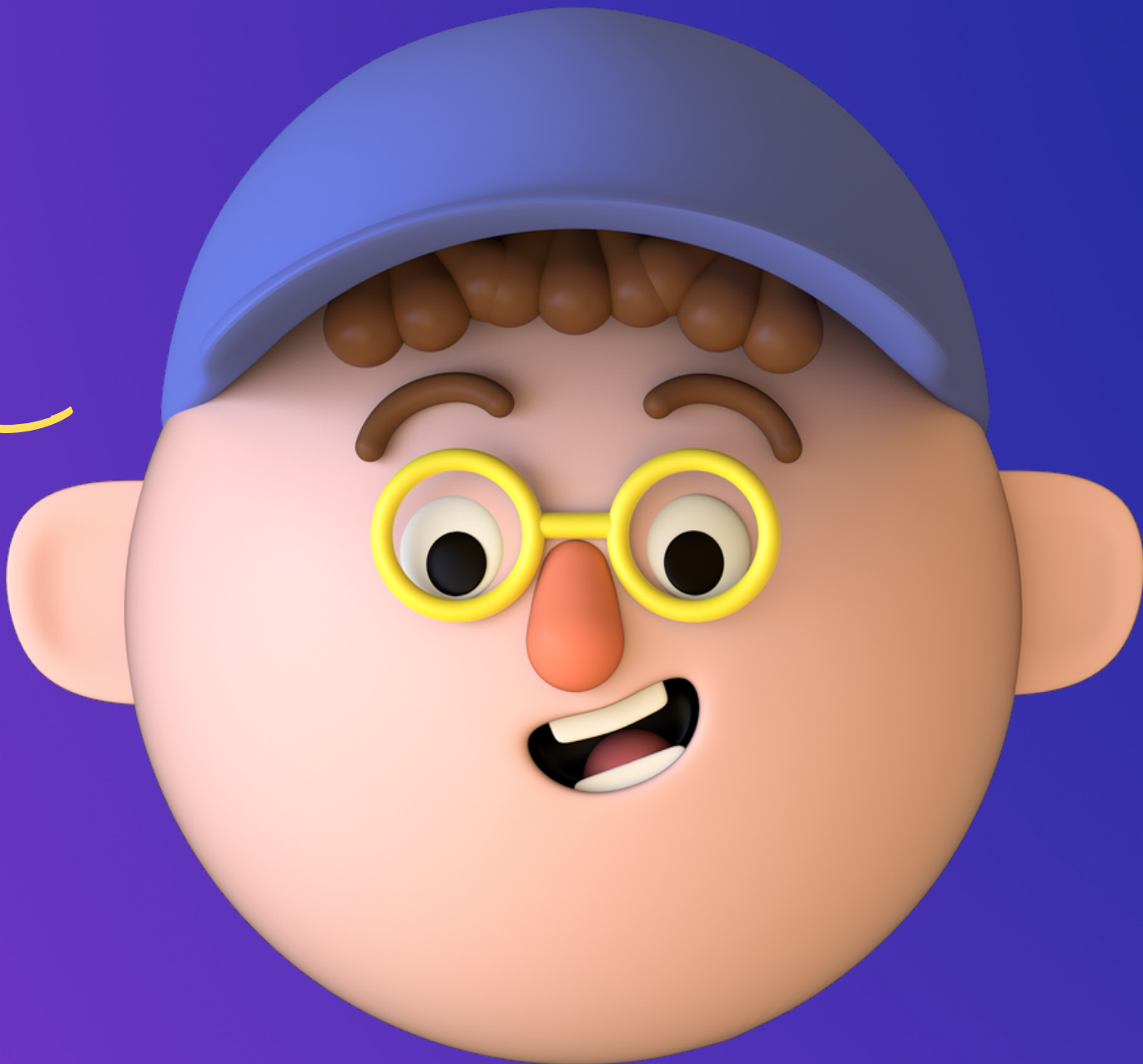
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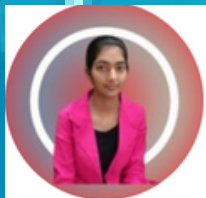
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JAVA LOOPS

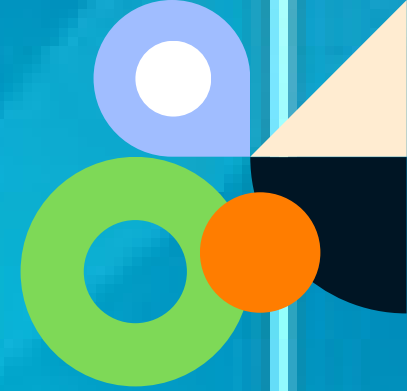
IN JAVA

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FOR Each LOOP :-

The for-each loop, also known as the enhanced for loop, is a powerful iteration construct in Java.

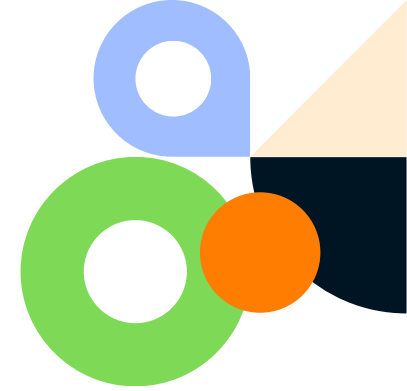
It simplifies traversing arrays and collections, offering cleaner, more readable code.

Let's dive in:





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Syntax of a For Each Loop:-



Syntax.java

```
for (dataType variable :  
arrayOrCollection) { // Block of  
code to be executed for each  
element in the array or collection  
}
```

#Quote #Programming #Selfcare



The dataType represents the type of elements in the array or collection, and the variable is used to represent each element during the iteration.

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Example:-



ForEachLoopExample.java

```
public class ForEachLoopExample {  
    public static void main(String[] args) {  
        int[] numbers = {1, 2, 3, 4, 5};  
        for (int number : numbers) {  
            System.out.println(number);  
        }  
    }  
}
```

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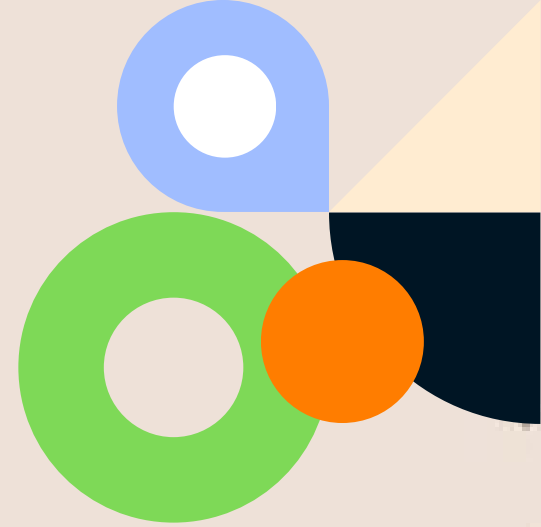


Example Explanation:-

- 1. The program starts executing from the main method.**
- 2. The array numbers is initialized with values {1, 2, 3, 4, 5}.**
- 3. The for-each loop is initiated. It iterates through each element of the numbers array.**
- 4. For each iteration, the value of the current element is printed using `System.out.println(number);`.**
- 5. After all elements have been processed, the loop terminates, and the program execution continues to the end of the main method.**
- 6. The program finishes its execution, and the output (printed values) will be displayed on the console:**



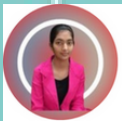
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Example Output:-

1
2
3
4
5





Explanation:

The for-each loop iterates through each element of the numbers array, and during each iteration, it prints the value of the current element (held in the loop variable number). As a result, it prints all the elements of the array one by one, each on a new line.



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Advantages:-

- **Simplicity:** The for-each loop eliminates the need for explicit index handling, making the code more readable and less error-prone.
- **Readability:** The loop's concise syntax enhances code readability, making it easier to understand the iteration process.
- **Efficient:** For-each loops are optimized internally for better performance.



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Disadvantages:-

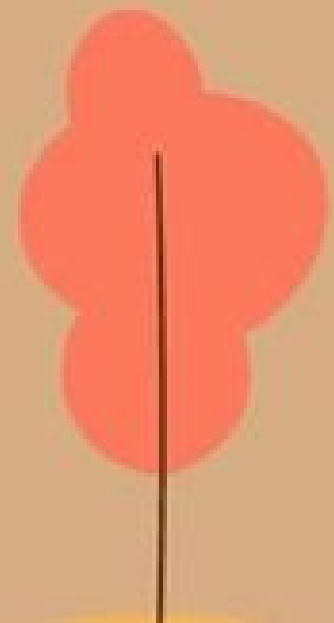
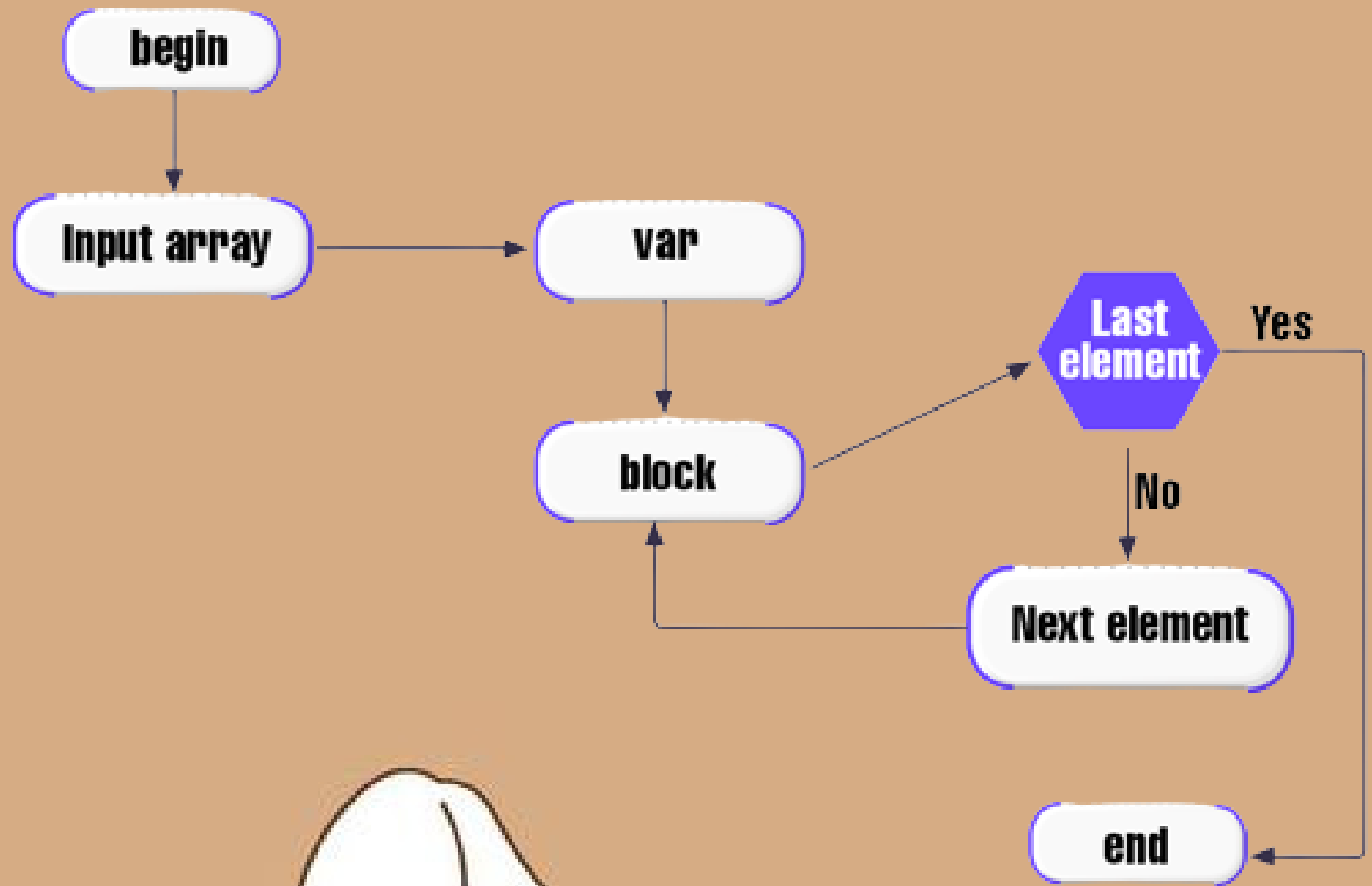
- **No Index Access:** For-each loops do not provide access to the index of the current element, making it unsuitable for situations where index manipulation is required.
- **Read-Only:** The for-each loop is suitable for read-only access to elements, as it does not allow modifying the elements in the array or collection during iteration.





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For - Each loop in Java





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