

**JS**

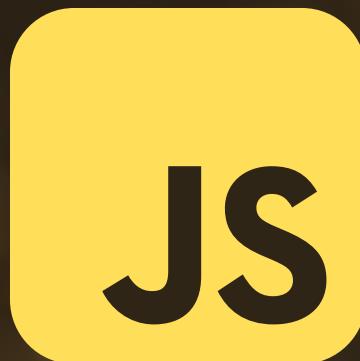
# **FOR LOOP IN JAVASCRIPT**



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[Muhammad Abuzar](#)



## FOR LOOP IN JAVASCRIPT

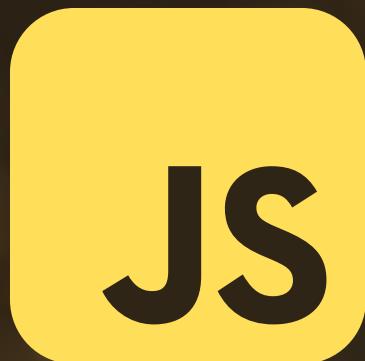
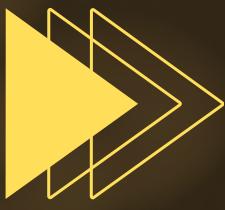
In JavaScript, the **for** loop is used for **iterating** over a block of code a certain number of times, or to iterate over the elements of an array.



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## FOR LOOP SYNTAX

The syntax of the for loop is:

```
for (initialExpression; condition; updateExpression) {  
    // for loop body  
}
```

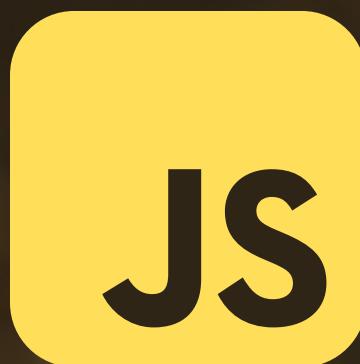
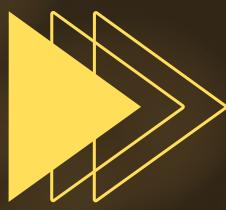


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## FOR LOOP SYNTAX EXPLANATION

Here,

**initialExpression** - Initializes a counter **variable**.

**condition** - The condition to be evaluated. If **true**, the body of the **for** loop is executed.

**updateExpression** - Updates the value of **initialExpression**.

Once an iteration of the loop is completed, the **condition** is re-evaluated. The process continues until the condition is **false**.

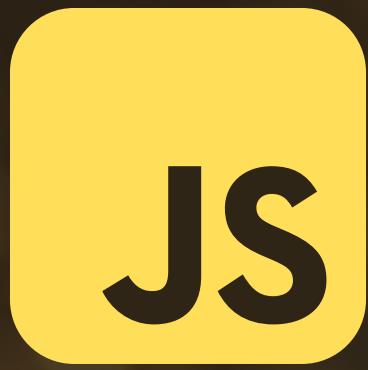
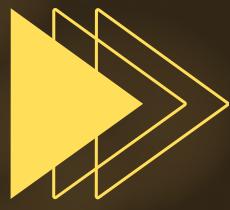


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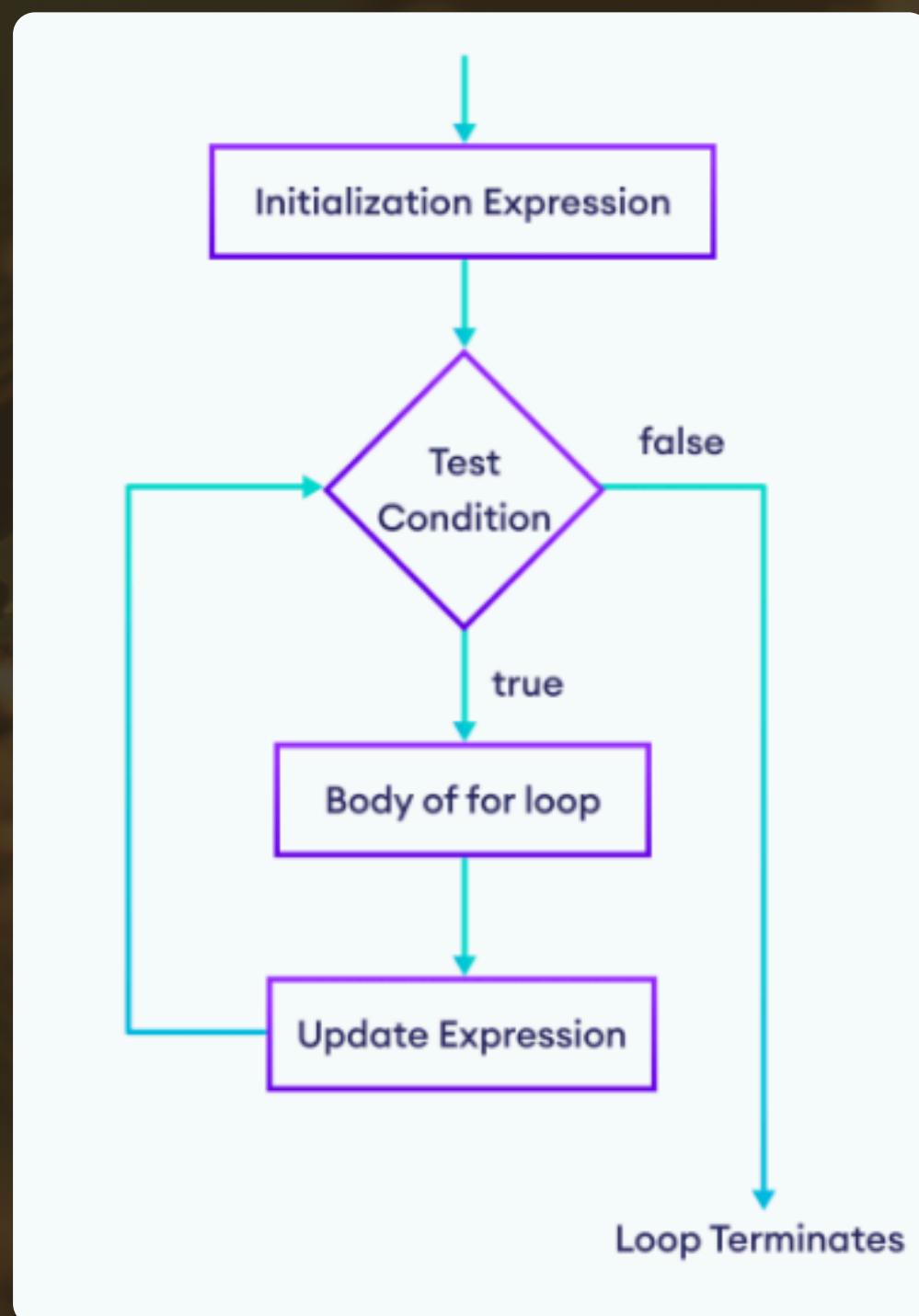


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# FOR LOOP FLOWCHART

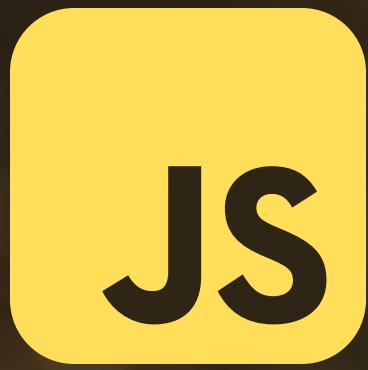
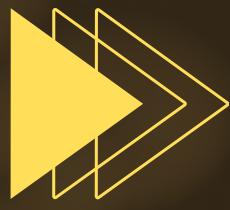


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## FOR LOOP EXAMPLE

```
for (let i = 1; i < 5; i++) {  
    console.log(i);  
}
```

Output

1  
2  
3  
4

We have printed numbers from 1 to 4.

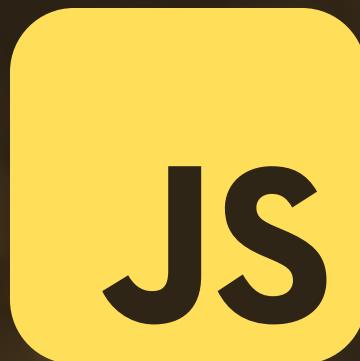
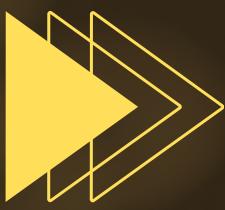


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# FOR LOOP EXAMPLE EXPLANATION

Iteration	Variable	Condition: i<5	Action
1st	i=1	true	1 is printed. i is incremented to 2
2nd	i=2	true	2 is printed. i is incremented to 3
3rd	i=3	true	3 is printed. i is incremented to 4
4th	i=4	true	4 is printed. i is incremented to 5
5th	i=5	false	loop is terminated

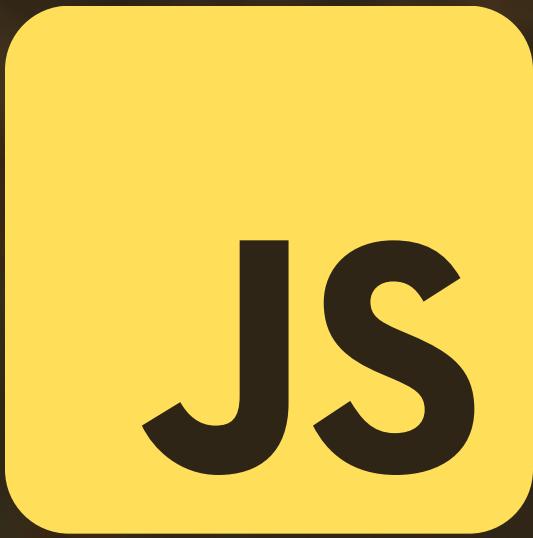
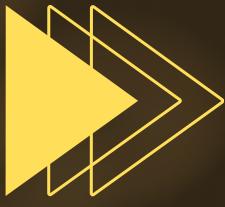


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