JS-LOOPS

ANECO ACADEMY

Array Loops – For & Foreach

for:

```
const fruits = ["Banana", "Orange", "Apple", "Mango"];
for (let i = 0; i < fruits.length; i++) {
  console.log(fruits[i]);
}
```

foreach():

```
const fruits = ["Banana", "Orange", "Apple", "Mango"];
fruits.forEach(function(item){
  console.log(item);
})
```

```
const myArray = [1,2,3,4];

const myArrayTimesTwo = myArray.map((value, index, array) => {
    return value * 2;
});

console.log(myArray); // [1,2,3,4];
console.log(myArrayTimesTwo); // [2,4,6,8];
```
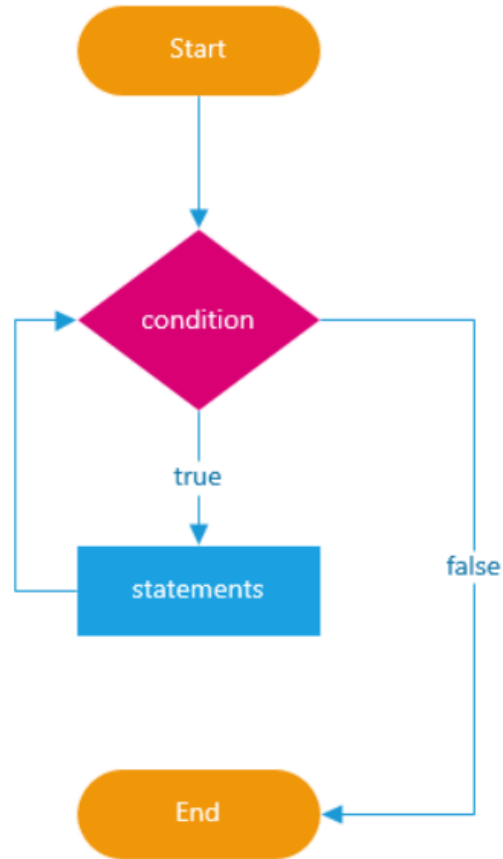
JavaScript Loops

In programming, loops are used to repeat a block of code

For example, if you want to show a message 100 times, then you can use a loop. It's just a simple example; you can achieve much more with loops.

➤ For loop

JavaScript Loops - for

The for loop requires following three parts.

➢ **Initializer**: Initialize a counter variable to start with
➢ **Condition**: specify a condition that must evaluate to true for next iteration
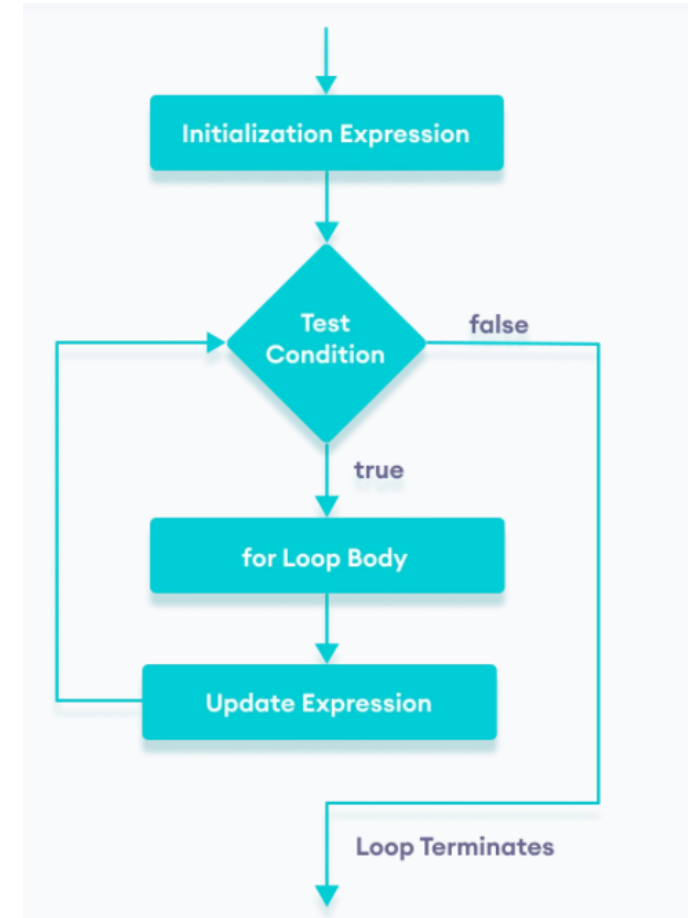➢ **Iteration**: increase or decrease counter

Syntax
```
for(initializer; condition; iteration)
{
    // Code to be executed
}
```
Example
```
for (var i = 0; i < 5; i++)
{
    console.log(i);
}


let n = 5;

// looping from i = 1 to 5
for (let i = 1; i <= n; i++) {
    console.log(`I am learning JavaScript.`);
}
```

Object – for...in

Loop through an object Using for...in

```javascript
const student = {
    name: 'John',
    age: 20,
    hobbies: ['reading', 'games', 'coding'],
};

// using for...in
for (let key in student) {
    let value;

    // get the value
    value = student[key];

    console.log(key + " - " + value);
}
```

```html
<script>
    var result={
        fullName:"salman",
        age:55,
        address:"chennai"
    };
    console.log(Object.keys(result));
    console.log(Object.values(result));
    console.log(Object.entries(result));
</script>
```