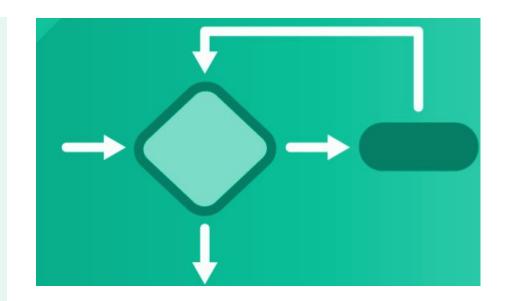
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# Javascript Loops



## **Javascript Loops**

- Loops can execute a block of code any number of times.
- **Loops** helps to run the **same code** any number of times with **different values** each time.

**Entry Controlled Loop:** The **Condition** is tested **before** the entry of the Loop body. **Eg**: For Loop and While Loop.

**Exit Controlled Loop:** The **Condition** is tested at the **end** of the Loop body. In this case the loop will be executed at least **once** irrespective of the condition.

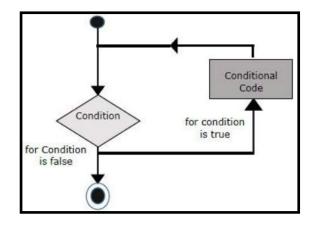
Eg: Do While Loop.

- for
- for/in
- for/of
- while
- do/while

 The For Loop is used when the number of iterations is known.

#### **Syntax**

```
for (initialization; condition; increment)
{
    code to be executed
}
```



**Initialization - Initialize** the variable in use.

**Condition** - **Exit** condition is tested here. It returns a **boolean value**.

Condition is checked **prior** to the execution of the loop statement.

**Code** - If condition is **true**, then the Loop statement is executed.

Increment/

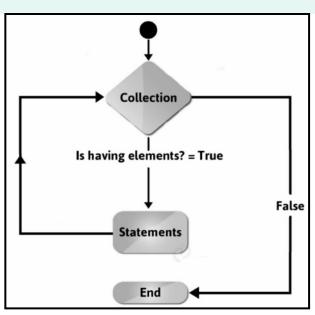
**Decrement - Update** values for next **iteration**.

 The For In Loop is used to iterate through an object's keys.

#### **Syntax**

```
for (variablename in object) {
   statement or block to execute
}
```

- The order of the properties iterated may not match with that defined in the object.
- So generally for in loop is not recommended for use over arrays.
- If the **index order** of the array is important, then in that case **don't use** For In Loop.



For In Loop

### For Of Loop

- The For of loop is used to **iterate** over the **values** of the **iterable object** such as
  - Array
  - String
  - Maps
  - NodeList etc.

#### **Syntax**

```
for (variable of iterable) {
   // code block to be executed
}
```

- The For of Loop is **not** supported in **Internet Explorer**.
- To execute on the value of each property of the object the For Of Loop calls a custom iteration hook.