JavaScript

Loops

Useful & Important

JS

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JS Loops

Loops are a way to repeat the same code multiple times.

- for loop
- for in loop
- for of loop
- while loop
- do-while loop

1. **for Loop**

loops through a block of code a **number of times**, with 3 optional expressions

```javascript
// Syntax
for (initialization; condition; iteration) {
    // Code to be repeated
}


// Example
for (let i = 0; i < 5; i++) {
    console.log("Hello!");
}


// Here "Hello" prints 5 times "
```

2. for-in Loop

It allows you to access and perform **operations on each property** of an **object** one by one.

```
// Syntax
for (variable in object) {
  // Code to be executed for each property
}


// variable will hold the name of each
property of the object during each
iteration.


// Example
let obj = {
  name: 'CodeBustler',
  place: 'India',
  year: 2023,
};


for (let key in obj) {
  console.log(`${key}  : ${obj[key]}`);
}
```

name : CodeBustler
place : India
year : 2023

3. for-of Loop

Allows you to iterate over iterable objects such as **arrays, strings, maps, sets,** and more

```javascript
// Syntax
for (variable of iterable) {
  // Code to be executed for each element
}

// variable will hold the value of each
element in the iterable

// Example
const fruits = ['apple', 'banana',
'orange'];

for (let fruit of fruits) {
  console.log(fruit);
}
```

```
apple

banana

orange
```

4. **while Loop**

Loops through a block of code as long as specified **condition is true**

```javascript
// Syntax
while (condition) {
  // Code to be executed as long as the
    condition is TRUE
}


// Example
let countdown = 10;
let i = 0;

while(i<countdown){
  console.log(countdown);
  countdown--;
}


// Returns coundown from 10 to 1
```

5. do-while Loop

do-while Loop will **execute** the body **first,** then **later checks the condition** & while its truthy executes again and again.

```javascript
// Syntax
 do{
   // Code to be executes once
} while (condition) // if TRUE runs again

// Example
let count = 0;

do {
  console.log(count);
  count++;
} while (count < 5);

// Returns: 0 1 2 3 4
```

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