## **JavaScript Loops**

The **JavaScript loops** are used to iterate the piece of code using for, while, do while or for-in loops. It makes the code compact. It is mostly used in array.

There are four types of loops in JavaScript.

- 1.for loop
- 2. while loop
- 3.do-while loop
- 4. for-in loop

## JavaScript For loop

The **JavaScript for loop** iterates the elements for the fixed number of times. It should be used if number of iteration is known. The syntax of for loop is given below.

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

#### Example

Example	Output
for (i=1; i<=5; i++)	1
{	2
document.write(i + " <b> </b> ")	3
}	4

	5
--	---

# JavaScript while loop

The **JavaScript while loop** iterates the elements for the infinite number of times. It should be used if number of iteration is not known. The syntax of while loop is given below.

```
while (condition)
{
    code to be executed
}
```

### Example

Example	Output
var i=1;	1
while (i<=5)	2
{	3
document.write(i + " ");	4
i++;	5
}	

## JavaScript do while loop

The **JavaScript do while loop** iterates the elements for the infinite number of times like while loop. But, code is executed at least once whether condition is true or false. The syntax of do while loop is given below.

```
do{
   code to be executed
}while (condition);
```

### Example

Output
1
2
3
4
5

## JavaScript for in loop

The for...in loop is used to loop through an object's properties.

The JavaScript for/in statement loops through the properties of an object.

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

Example

### Example

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<script></td><td>abc xyz 20</td></tr><tr><td>var txt = "";</td><td>1,00</td></tr><tr><td>var person = {fname:"abc",</td><td></td></tr><tr><td>lname:"xyz", age:20};</td><td></td></tr><tr><td>var x;</td><td></td></tr><tr><td>for (x in person)</td><td></td></tr><tr><td>{</td><td></td></tr><tr><td>txt += person[x] + "";</td><td></td></tr><tr><td>}</td><td></td></tr><tr><td>document.write(txt);</td><td></td></tr><tr><td></script>	

Output