

## 26. For loops and while loops.

Filename: loops.js

### Pre-reading:

Read this article to learn more about loops.

- [For, For...Of and For...In Loops in JavaScript](#)
- [Using While and Do...While Loops in JavaScript](#)

### Exercise:

- a) Print all the numbers between 0 and 10. Do this with a loop.
- b) Print all the numbers between 0 and 10. Do this with a while loop.

### Solution:

a)

```
for (var i = 0; i < 11; i++){  
  console.log(i);  
}
```

b)

```
var counter = 0;  
while (counter < 11){  
  console.log(counter);  
  counter++;  
}
```

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## 27. Triangle

Filename: triangle.js

### Pre-reading:

Read this article to learn more about loops.

- [For, For...Of and For...In Loops in JavaScript](#)
- [JavaScript for Loop](#)

### Exercise:

Create an empty string **stars** and an integer **counter** with a value of 0. Write a while loop that runs as long as the count is less than 9. Each time the loop runs, add "\*" to the end of stars and print it. Remember to increase the count by one each time the loop is run.

### Example of printing:

```
*
**
***
****
*****
*****
*****
*****
*****
*****
```

### Solution:

```
var stars = " ";
var counter = 0;

while (counter < 9) {
    stars = stars + "*";
    console.log(stars);
    counter++;
}
```

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## 28. While loop with input.

filename: while\_input.js

### Exercise:

- a) Create a program that takes a number as input from the user, and prints all numbers from 0 up to this number (hint: while ...).
- b) Expand the program with a new while loop that requests input from the user for each "round". When the user enters the number 10, the program must end.

### Solution:

```
var inp = prompt("Enter a number");
let num = parseInt(inp);
counter = 0;

while (counter < num) {
    console.log(counter);
    counter++;
}
```

b)

```
var num = 0;

while (num != 10) {
    let inp = prompt("Enter a number");
    num = parseInt(inp);
}
console.log("You entered 10, the program will end now!");
```

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