



JavaScript Tutorials-For Loops

For Loops

For loops can be used to execute a block of code at once. Instead of doing the below:

The screenshot shows a web editor interface with tabs for HTML, CSS, JavaScript, Console, and Output. The HTML tab is active, displaying the following code:

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8">
  <title>JS Bin</title>
</head>
<body>
<script>
  console.log(1);
  console.log(2);
  console.log(3);
  console.log(4);
  console.log(5);
</script>
</body>
</html>
```

The Console tab is also active, showing the output of the five log statements: 1, 2, 3, 4, and 5. A 'Clear' button is visible in the top right of the console.

It is much easier to do this simple counter to print the same thing as before but instead of 5 lines of code we only have 2 lines of code.

The screenshot shows the same web editor interface, but now the JavaScript tab is active, displaying the following code:

```
for (var counter = 1; counter < 6; counter++) {
  console.log(counter);
}
```

The Console tab is also active, showing the output of the for loop: 1, 2, 3, 4, and 5. A 'Run' button and a 'Clear' button are visible in the top right of the console.

There are three separate statements inside a for loop. Firstly we create a counter variable so we know where we will be starting. For example counting from 1 to 5 we start at 1. Secondly we have our limit, so where we want the for loop to end. Lastly we have our method of incrementing our variable. In this case we are using "++" which adds 1 to our variable, this is the same as using "counter = counter + 1"



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Important Syntax

This syntax is important to remember as it can be used for numerous things, such as arithmetic and is very useful for our loops.

+	Addition
-	Subtraction
*	Multiplication
/	Division
++	Increment by 1
--	Decrement by 1
=	Same as
==	Equal to
===	Equal value and equal type
!=	Not equal to
!==	Not equal value and equal type
<	Less than
>	Greater than
<=	Less than or equal to
>=	Greater than or equal to

TRY THIS!!!!

Make a for loop that will count up to 20 then down to 0! You can try this in separate loops first or in one!