

Make a new repo on GitHub, connect it to your local repo called **javascript-challenges-loops**. Then push all new files and changes to the remote repo on Github (check Git notes for new project)

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### **Challenge 1) For Loop 1-10**

Create a for loop that outputs every number from 1-10

Expected output:

1  
2  
3  
4  
5  
6  
7  
8  
9  
10

### **Challenge 2) Multiplication Table**

Initialize a variable called `num` and set it to any number 1-10

Use a for loop to iterate from 1 to 10.

For each iteration, log the product of the given number and num.

Example:

```
const number = 5;  
// You can change this to any number
```

Expected output for number = 5:

$5 \times 1 = 5$

$5 \times 2 = 10$

$5 \times 3 = 15$

$5 \times 4 = 20$

$5 \times 5 = 25$

$5 \times 6 = 30$

$5 \times 7 = 35$

$5 \times 8 = 40$

$5 \times 9 = 45$

### **Challenge 3) Sum of 1 - 100**

Initialize a variable called `sum` to 0

Create a for loop that iterates 1 through 100

Add each index to `sum`

`Console.log sum` after the for loop finishes

Expected output should be 5050

### **Challenge 4) While loop 1-10**

Create a while loop that outputs every number from 1-10

Expected output:

1

2

3

4

5

6

7

8

9

10

### **Challenge 5) For loop 1-50 Evens Only (HARD)**

Create a for loop that iterates from 1 to 50 and outputs only the even numbers

(Hint: Remember the modulus operator, %. It returns the remainder of the right number divided by the left number.

Examples:

$2 \% 2 == 0$

$2 \% 3 == 1$

$2 \% 4 == 0$

$2 \% 7 == 1;$ )

Expected Output:

2

4

6

8

10

12

14

16

18

20

...