

Top 10 JavaScript Code Challenges for Beginners

(CREATE BY – MUKUL VISHALA)

1. Print all even numbers from 0 to 10:

```
for (let i = 0; i <= 10; i += 2) {  
  console.log(i);  
}
```

2. Print a table containing multiplication tables:

```
function printMultiplicationTables(upTo) {  
  for (let i = 1; i <= upTo; i++) {  
    for (let j = 1; j <= 10; j++) {  
      console.log(`${i} x ${j} = ${i * j}`);  
    }  
  }  
}  
  
printMultiplicationTables(10);
```

3. Create a length converter function (kilometers to miles):

```
function kilometersToMiles(kilometers) {  
  const milesPerKilometer = 0.621371;  
  return kilometers * milesPerKilometer;  
}  
  
// Example usage:  
console.log(kilometersToMiles(5)); // Output: 3.106855
```

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4. Calculate the sum of numbers within an array:

```
function sumArray(numbers) {  
  let sum = 0;  
  for (let number of numbers) {  
    sum += number;  
  }  
  return sum;  
}  
  
// Example usage:  
console.log(sumArray([1, 2, 3, 4, 5])); // Output: 15
```

5. Create a function that reverses an array:

```
function reverseArray(arr) {  
  return arr.reverse();  
}  
  
// Example usage:  
console.log(reverseArray([1, 2, 3, 4, 5])); // Output: [5, 4, 3, 2, 1]
```

6. Sort an array from lowest to highest:

```
function sortArray(arr) {  
  return arr.sort((a, b) => a - b);  
}  
  
// Example usage:  
console.log(sortArray([3, 1, 4, 1, 5, 9, 2, 6, 5, 3, 5]));
```

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7. Create a function that filters out negative numbers:.

```
function filterOutNegatives(arr) {  
  return arr.filter((num) => num >= 0);  
}  
  
// Example usage:  
console.log(filterOutNegatives([-1, 2, -3, 4, -5, 6]));
```

8. Remove the spaces found in a string:

```
function removeSpaces(str) {  
  return str.replace(/\s/g, '');  
}  
  
// Example usage:  
console.log(removeSpaces('Hello, world!')); // Output: "Hello,world!"
```

9. Return a Boolean if a number is divisible by 10:

```
function isDivisibleBy10(num) {  
  return num % 10 === 0;  
}  
  
// Example usage:  
console.log(isDivisibleBy10(25)); // Output: false  
console.log(isDivisibleBy10(100)); // Output: true
```

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10. Return the number of vowels in a string:

```
function countVowels(str) {  
  const vowels = 'aeiou';  
  let count = 0;  
  for (let char of str.toLowerCase()) {  
    if (vowels.includes(char)) {  
      count++;  
    }  
  }  
  return count;  
}  
  
// Example usage:  
console.log(countVowels('Hello, world!')); // Output: 3
```

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