



JavaScript Functions

Duration: 4 Hour

1-JavaScript Functions

Basic

1.Create a function that will display the smallest value in the array.

Example:

```
console.log(findSmallest([30, 45, 60, 7]));  
1
```

2. Create Function that will return your string in Alphabetical order

Example:

```
console.log(AlphabeticalOrder('hello'));  
"ehllo"
```

3. A Write a function that lets you know if a number is Even or Odd .

Example:

```
console.log(oddOrEven(9));  
"Odd"
```

4. Remove all Odd number(s) in an array and return a new array that contains Even numbers only.

Example:

```
console.log(evenNum([1, 2, 3, 4, 5, 6,7,8,9]));  
[ 2, 4, 6 ,8 ]
```



5. Create function to Return the absolute sum of all the array elements

Example:

```
getAbsSum([-1, -3, -5, -4, -10, 0]);  
23
```

Mid

1. In mathematics, the factorial of a non-negative integer n , denoted by $n!$ is the product of all positive integers less than or equal to n . In simple terms, the Factorial of 8 is solved like this:

Example:

```
console.log(factorial(8));  
40320
```

2. Create a function that takes in an array as an argument, checks the data type of each element, and removes any elements that are strings. The function should return the modified array.

Example:

```
console.log(numbersOnly(['Ayham', 3, 7, 'Alaa', 13, 'coding']));  
[ 3, 7, 13 ]
```

3. Return the sum of a number going back to its root. In other words, the function will work like this:

Add Up(6);

$$6 + 5 + 4 + 3 + 2 + 1 + 0 = 21$$

Example:

```
console.log(addUp(8));  
36
```



4. Create a function that will accept an array and do the following:

- Get the lowest element
- Get the highest element
- Get the length of array
- Get the Average of all element;
- Store these criteria in a new array

Example:

```
console.log(minMaxLengthAverage([7, 13, 3, 77, 100]));  
[ 3, 100, 5, 40 ]
```

5. Convert the given number to a Roman Numeral

Example:

```
romanNumbers(1989);  
MCMLXXXIX
```



Advanced

1. Return how many words was given

Example:

```
countWords('hello from CodingAcademy!');  
3
```

2. Create function to Multiply all elements in an array by it's length

Example:

```
MultiplyByLength([4,2,5]);  
[12, 6, 15]
```

3. Create a function that will check if str1 ends with the characters in str2

Rules:

- Take two strings as argument
- Determine if second string matches ending of the first string
- Return Boolean value

Example:

```
console.log(checkEnding("CodingSchool", "Ac"));  
false
```

4. Create a function that will repeat each string character two times

Example:

```
console.log(doubleChar('Coding'));  
CCooddiinngg
```

5. Return the index location of an element from a given array. First argument is the array you'd like to search and the second one is the element (either string/number) to look for.

Example:

```
console.log(findIndex(['Ali', 'Mazen', 'Ayham', 'Murad'], 'Ali'));  
1
```