

Assignment No # 02



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String built-in functions:

1. toUpperCase ():

This function converts all the characters in a string to uppercase letters.

Example:

```
let str = "hello world";  
let upperStr = str.toUpperCase();  
console.log(upperStr);
```

Output:

```
node /tmp/scYKSrIHP1.js  
HELLO WORLD
```

2. toLowerCase ():

This function converts all the characters in a string to lowercase letters.

Example:

```
let str = "FUNCTION";  
let lowerStr = str.toLowerCase();  
console.log(lowerStr);
```

Output:

```
node /tmp/scYKSrIHP1.js  
function
```

3. charAt ():

This function returns the character at a specified index in a string.

Example:

```
let str = "my function";  
let char = str.charAt(1);  
console.log(char); |
```

Output:

```
node /tmp/scYKSrIHP1.js  
y  
|
```

4. substring ():

This function returns a part of a string between two specified indices.

Example:

```
let str = "my function";  
let subStr = str.substring(1, 6);  
console.log(subStr);
```

Output:

```
node /tmp/0fFtMb9GOU.js  
y fun  
.
```

5. split ():

This function splits a string into an array of substrings based on a specified separator.

Example:

```
let str = "my function";  
let arr = str.split(" ");  
console.log(arr);
```

Output:

```
node /tmp/0fFtMb9GOU.js  
[ 'my', 'function' ]  
.
```

6. length:

This property returns the length of a string.

Example:

```
let str = "my function";  
let len = str.length;  
console.log(len);
```

Output:

```
node /tmp/0fFtMb9GOU.js  
11
```

7. replace ():

The replace () method replaces a specified value with another value in a string.

Example:

```
const text = 'Hello, world!';  
const newText = text.replace('world', 'JavaScript');  
console.log(newText);
```

Output:

```
node /tmp/lp8AhJhrz0.js  
Hello, JavaScript!
```

Array built-in Functions:

1. push():

The push() method adds one or more elements to the end of an array and returns the new length of the array.

Example:

```
const arr = ['Asmara', 'Aleeza'];  
arr.push('Rabia', 'Iqra');  
console.log(arr);
```

Output:

```
node /tmp/lp8AhJhrz0.js  
[ 'Asmara', 'Aleeza', 'Rabia', 'Iqra' ]  
|
```

2. pop():

The pop() method removes the last element from an array and returns that element.

Example:

```
const arr = ['Asmara', 'Aleeza', 'Rabia', 'Iqra'];  
const lastArr = arr.pop();  
console.log(lastArr);  
console.log(arr);
```

Output:

```
node /tmp/lp8AhJhrz0.js  
Iqra  
[ 'Asmara', 'Aleeza', 'Rabia' ]  
|
```

3. shift():

The shift() method removes the first element from an array and returns that element.

Example:

```
const names = ['Asmara', 'Aleeza', 'Rabia', 'Iqra'];  
const firstName = names.shift();  
console.log(firstName);  
console.log(names);
```

Output:

```
node /tmp/kA0kXt50H0.js
Asmara
[ 'Aleeza', 'Rabia', 'Iqra' ]
|
```

4. unshift():

The unshift() method adds one or more elements to the beginning of an array and returns the new length of the array.

Example:

```
const names = ['Iqra', 'Aleeza'];
const newLength = names.unshift('Rabia', 'Asmara');
console.log(newLength);
console.log(names);
```

Output:

```
node /tmp/kA0kXt50H0.js
4
[ 'Rabia', 'Asmara', 'Iqra', 'Aleeza' ]
|
```

5. splice():

The splice() method adds or removes elements from an array at a specified index.

Example:

```
const names = ['Asmara', 'Aleeza', 'Rabia', 'Iqra'];
names.splice(3, 1, 'Momina', 'Sanawish');
console.log(names);
```

Output:

```
node /tmp/kA0kXt50H0.js
[ 'Asmara', 'Aleeza', 'Rabia', 'Momina', 'Sanawish' ]
|
```

6. slice():

The slice() method returns a shallow copy of a portion of an array into a new array object selected from start to end (end not included).

Example:

```
const names = ['Asmara', 'Aleeza', 'Rabia', 'Iqra'];  
const selectedNames = names.slice(1, 3);  
console.log(selectedNames);
```

Output:

```
node /tmp/9G3vdzp0xZ.js  
[ 'Aleeza', 'Rabia' ]  
|
```

7. concat():

The concat() method merges two or more arrays into a new array.

Example:

```
const arr1 = ['Asmara', 'Rabia'];  
const arr2 = ['Aleeza', 'Iqra'];  
const allArrays = arr1.concat(arr2);  
console.log(allArrays); |
```

Output:

```
node /tmp/9G3vdzp0xZ.js  
[ 'Asmara', 'Rabia', 'Aleeza', 'Iqra' ]  
|
```

8. indexOf():

The indexOf() method returns the first index at which a given element can be found in an array, or -1 if it is not present.

Example:

```
const names = ['Asmara', 'Aleeza', 'Rabia', 'Iqra'];
const index = names.indexOf('Aleeza');
console.log(index);
```

Output:

```
node /tmp/9G3vdzp0xZ.js
1
```

9. forEach():

The forEach() method executes a provided function once for each array element.

Example:

```
const names = ['Asmara', 'Aleeza', 'Rabia', 'Iqra'];
names.forEach(function(name) {
  console.log(name);
});
```

Output:

```
node /tmp/9G3vdzp0xZ.js
Asmara
Aleeza
Rabia
Iqra
|
```