

Lesson 04 Demo 02

Using Various String Built-in Methods

Objective: To demonstrate the usage of various built-in string methods in JavaScript for

string manipulation and analysis

Tools Required: Visual Studio Code and Node.js

Prerequisites: None

Steps to be followed:

1. Explore built-in string methods

Step 1: Explore built-in string methods

1.1 Open Visual Studio Code and create a new file named strings.js

```
JS strings.js

1

I
```



1.2 Declare a string variable called **names** using single or double quotes. Assign multiple names to the **names** variable, separated by commas

```
JS strings.js > (a) names

1 let names = 'John, Jennie, Jim, Jack Joe';  

I
```

1.3 Use **console.log()** to print the **names** variable. Use the **typeof** operator to verify the data type of the **names** variable

```
## strings.js | ## strings.js
```



1.4 Run the program

```
erishantgmail@ip-172-31-90-232:-/Desktop/JavaScript$ node strings.js
names: John, Jennie, Jim, Jack Joe
erishantgmail@ip-172-31-90-232:-/Desktop/JavaScript$ node strings.js
names: John, Jennie, Jim, Jack Joe data type: string
erishantgmail@ip-172-31-90-232:-/Desktop/JavaScript$
```

You can see the names printed on the console with the data type.

1.5 Utilize the length property on the names variable to retrieve the length of the string

```
# strings.js > ...
1    let names = 'John, Jennie. Jim, Jack Joe';
2    console.log("names: "+names+" data type: "+typeof names);
3    console.log(names.length);
4
5
```

```
erishantgmail@ip-172-31-90-232:-/Desktop/JavaScript$ node strings.js
names: John, Jennie, Jim, Jack Joe
erishantgmail@ip-172-31-90-232:-/Desktop/JavaScript$ node strings.js
names: John, Jennie, Jim, Jack Joe data type: string
erishantgmail@ip-172-31-90-232:-/Desktop/JavaScript$ node strings.js
names: John, Jennie, Jim, Jack Joe data type: string
27
erishantgmail@ip-172-31-90-232:-/Desktop/JavaScript$
```



1.6 Apply the **toUpperCase()** method to the **names** variable to convert it to uppercase. Print the converted string

```
Js strings.js \ Setrings.js \ Setrings.
```

1.7 Utilize the **replace()** method on the **names** variable to replace a specific character or substring. Print the manipulated string

```
Js strings.js X

Js strings.js X

1    let names = 'John, Jennie, Jim, Jack, Joe';
2    console.log("names: "+names+" data type: "+typeof names);
3    console.log(names.length);

4    let result = names.toUpperCase()
6    console.log("Names in Uppercase: "+names);
7    console.log("Result is: "+result);

8    result = names.replace('J', 'K');
10    console.log("Result is: "+result);

11
12
13
14
```



1.8 Rerun the program and observe the output

```
PROBLEMS OUTPUT TERMINAL DEBUGCONSOLE

27

Names in Uppercase: John, Jennie, Jim, Jack Joe
Result is: JOHN, JENNIE, JIM, JACK JOE
erishantgmail@ip-172-31-90-232:~/Desktop/JavaScript$ node strings.js
names: John, Jennie, Jim, Jack, Joe data type: string
28

Names in Uppercase: John, Jennie, Jim, Jack, Joe
Result is: JOHN, JENNIE, JIM, JACK, JOE
Result is: Kohn, Jennie, Jim, Jack, Joe
erishantgmail@ip-172-31-90-232:~/Desktop/JavaScript$
```

1.9 Create an array of contact names

1.10 Iterate over the array using a **for loop** with a specific condition and print the filtered names



```
Result is: Kohn, Jennie, Jim, Jack, Joe
erishantgmail@ip-172-31-90-232:-/Desktop/JavaScript$ node strings.js
names: John, Jennie, Jim, Jack, Joe data type: string
28
Names in Uppercase: John, Jennie, Jim, Jack, Joe
Result is: JOHN, JENNIE, JIM, JACK, JOE
Result is: Kohn, Jennie, Jim, Jack, Joe
kjia
Sia
erishantgmail@ip-172-31-90-232:-/Desktop/JavaScripts
```

1.11 Utilize the **substring()** method on the **names** variable to extract a portion of the string.

Print the extracted substring

```
erishantgmail@ip-172-31-90-232:-/Denktop/JavaScript$ node strings.js
names: John, Jennie, Jim, Jack, Joe data type: string
28
Names in Uppercase: John, Jennie, Jim, Jack, Joe
Result is: JOHN, JENNIE, JIM, JACK, JOE
Result is: Kohn, Jennie, Jim, Jack, Joe
Kia
Sia
Jahn, J
Grishantgmail@ip-172-31-90-232:-/Denktop/JavaScripts
```



1.12 Utilize the **split()** method on the **names** variable to split the string based on a specified delimiter. Print the resulting array

```
PROBLEMS OUTPUT TERMINAL DEBUGCONSOLE

names: John, Jennie, Jim, Jack, Joe data type: string
28

Names in Uppercase: John, Jennie, Jim, Jack, Joe
Result is: JOHN, JENNIE, JIM, JACK, JOE
Result is: Kohn, Jennie, Jim, Jack, Joe
Kia
Sia
John, J
[ IJohn', ' Jennie', ' Jim', ' Jack', ' Joe' ]
erishantgmail@ip-172-31-90-232:-/Desktop/JavaScript$
```

By following these steps, you have successfully demonstrated the usage of various builtin string methods in JavaScript for effective string manipulation and analysis, enhancing your ability to manage and process text within your applications.