

## Lesson 4 Demo 2

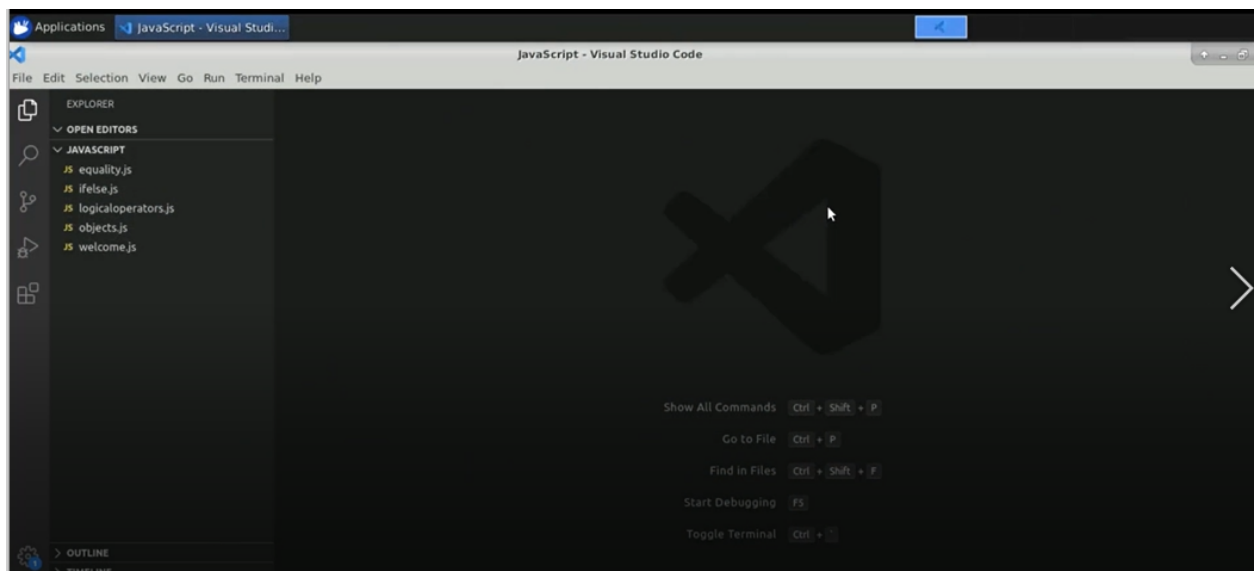
### Using Various String Built-in Methods

**Objective:** To use various string built-in methods

**Prerequisites:** None

#### Steps to perform:

1. Open a visual studio code.



2. Create a file name strings.js.

```
JS strings.js x
JS strings.js
1
```

3. Create a string variable.

```
JS strings.js •
JS strings.js > [0] names
1 let names = 'John, Jennie, Jim, Jack Joe';
```

4. Enter 'console.log("names: "+names+" data type: "+typeof names);'.

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

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE 1: bash

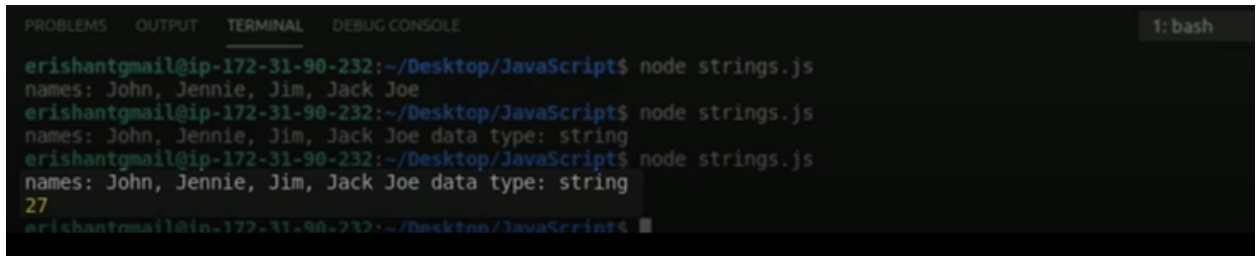
5. Run the code in the terminal. Enter 'node strings.js'.

```
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE 1: bash
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$
```

6. Enter 'console.log(names.length);'.

```
JS strings.js X
JS 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
```

- Run the code in the terminal. Enter 'node strings.js'.

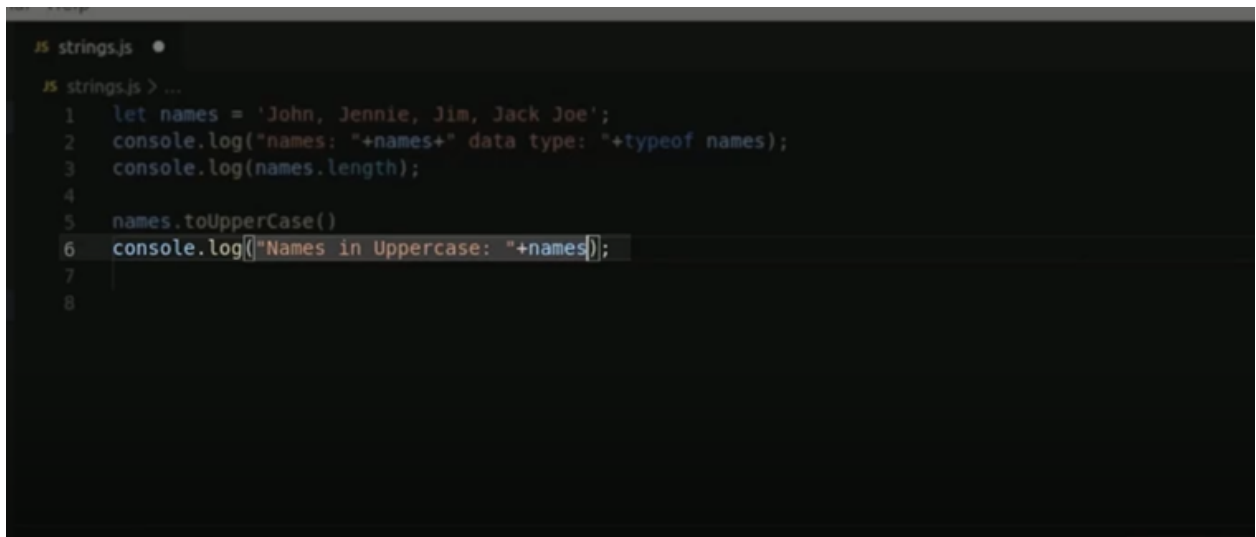


```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE 1: bash
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$

```

- Enter 'names.toUpperCase()'
   
 console.log("Names in Uppercase: "+names);'.

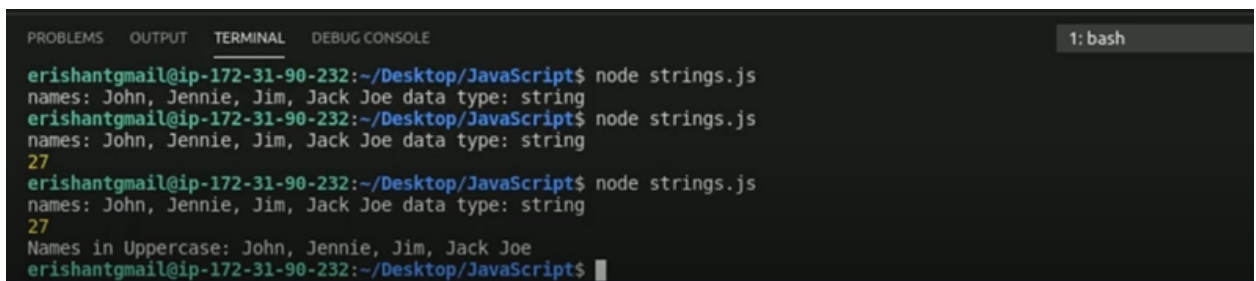


```

JS strings.js
JS 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 names.toUpperCase()
6 console.log("Names in Uppercase: "+names);
7
8

```

- Run the code in the terminal. Enter 'node strings.js'.



```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE 1: bash
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$ node strings.js
names: John, Jennie, Jim, Jack Joe data type: string
27
Names in Uppercase: John, Jennie, Jim, Jack Joe
erishantgmail@ip-172-31-90-232:~/Desktop/JavaScript$

```

- Enter 'let result = names.toUpperCase()'
   
 Enter 'console.log("Result is: "+result);'.

```
JS strings.js X
JS strings.js > [0] names
1 let names = 'John, Jennie, Jim, Jack, Joe';
2 console.log("names: "+names+" data type: "+typeof names);
3 console.log(names.length);
4
5 let result = names.toUpperCase()
6 console.log("Names in Uppercase: "+names);
7 console.log("Result is: "+result);
8
9
10
```

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

```
JS strings.js X
JS 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 let result = names.toUpperCase()
6 console.log("Names in Uppercase: "+names);
7 console.log("Result is: "+result);
8
9 result = names.replace('J', 'K');
10 console.log("Result is: "+result);
11
12
13
14
```

12. Run the code in the terminal. Enter 'node strings.js'.

```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE 1: bash
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$

```

13. Create a list of contact names.

```

JS strings.js
JS strings.js > [?] contactNames
3 console.log(names.length);
4
5 let result = names.toUpperCase();
6 console.log("Names in Uppercase: "+names);
7 console.log("Result is: "+result);
8
9 result = names.replace('J', 'K');
10 console.log("Result is: "+result);
11
12 let contactNames = []
13   "John",
14   "George",
15   "Kia",
16   "Ana",
17   "Shawn"
18 ];

```

14. Enter 'let searchKeyword = 'ia';'.

```

JS strings.js
JS strings.js > ...
10 console.log("Result is: "+result);
11
12 let contactNames = [
13   "John",
14   "George",
15   "Kia",
16   "Ana",
17   "Shawn",
18   "Sia"
19 ];
20
21 let searchKeyword = 'ia';
22
23
24

```

15. Create a for loop.

```
JS strings.js X
JS strings.js > ...
14     "George",
15     "Kia",
16     "Ana",
17     "Shawn",
18     "Sia"
19 ];
20
21 let searchKeyword = 'ia';
22
23 for(let idx=0;idx<contactNames.length;idx++){
24     if(contactNames[idx].indexOf(searchKeyword) !== -1){
25         console.log(contactNames[idx]);
26     }
27 }
28 }
```

16. Run the code in the terminal. Enter 'node strings.js'.

```
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE 1: bash
Result is: Kohn, Jennie, Jim, Jack, Joe
erishant@gmail@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
Kia
Sia
erishant@gmail@ip-172-31-90-232:~/Desktop/JavaScript$
```

17. Enter 'result = names.substring(0, 7);'. Enter 'console.log(result);'.

```
JS strings.js X
JS strings.js > ...
17     "Shawn",
18     "Sia"
19 ];
20
21 let searchKeyword = 'ia';
22
23 for(let idx=0;idx<contactNames.length;idx++){
24     if(contactNames[idx].endsWith(searchKeyword)){
25         console.log(contactNames[idx]);
26     }
27 }
28
29
30 result = names.substring(0, 7);
31 console.log(result);
32
```

18. Run the code in the terminal. Enter 'node strings.js'.

```
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE 1: bash
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
Kia
Sia
Jqhn, J
erishantgmail@ip-172-31-90-232:~/Desktop/JavaScript$
```

19. Enter 'let splittedNames = names.split(",")'. Enter 'console.log(splittedNames);'.

```
JS strings.js X
JS strings.js > ...
21 let searchKeyword = 'ia';
22
23 for(let idx=0;idx<contactNames.length;idx++){
24     if(contactNames[idx].endsWith(searchKeyword)){
25         console.log(contactNames[idx]);
26     }
27 }
28
29
30 result = names.substring(0, 7); // less than 7 i.e. till 6
31 console.log(result);
32
33
34 let splittedNames = names.split(",");
35 console.log(splittedNames);
36
```



20. Run the code in the terminal.

```

PROBLEMS  OUTPUT  TERMINAL  DEBUG CONSOLE
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
[ 'John', 'Jennie', 'Jim', 'Jack', 'Joe' ]
erishantgmail@ip-172-31-90-232:~/Desktop/JavaScript$

```

21. Enter a for loop.

```

JS strings.js X
JS strings.js > ...
30 result = names.substring(0, 7); // less than 7 i.e. till 6
31 console.log(result);
32
33
34 let splittedNames = names.split(",")
35 console.log(splittedNames);
36
37 for(let idx=0;idx<splittedNames.length;idx++){
38     console.log(splittedNames[idx]);
39 }
40
41

```

22. Run the code in the terminal.

```

Kia
Sia
John, J
[ 'John', 'Jennie', 'Jim', 'Jack', 'Joe' ]
John
Jennie
Jim
Jack
Joe
erishantgmail@ip-172-31-90-232:~/Desktop/JavaScript$

```

23. Enter 'trim()' to eliminate the white space.

```

# strings.js X
# strings.js > ...
25     console.log(contactNames[idx]);
26
27 }
28 }
29
30 result = names.substring(0, 7); // less than 7 i.e. till 6
31 console.log(result);
32
33
34 let splittedNames = names.split(",")
35 console.log(splittedNames);
36
37 for(let idx=0;idx<splittedNames.length;i log(message?: any, ...optionalParams: any[]): void
38     console.log(splittedNames[idx].trim());
39 }
40
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE 1: bash
Kia
Sia
John, J
[ 'John', 'Jennie', 'Jim', 'Jack', 'Joe' ]

```

24. Run the code in the terminal.

```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE 1: bash
Kia
Sia
John, J
[ 'John', 'Jennie', 'Jim', 'Jack', 'Joe' ]
John
Jennie
Jim
Jack
Joe
erishantgmail@ip-172-31-90-232:~/Desktop/JavaScript$

```

