

## Lesson 4 Demo 2

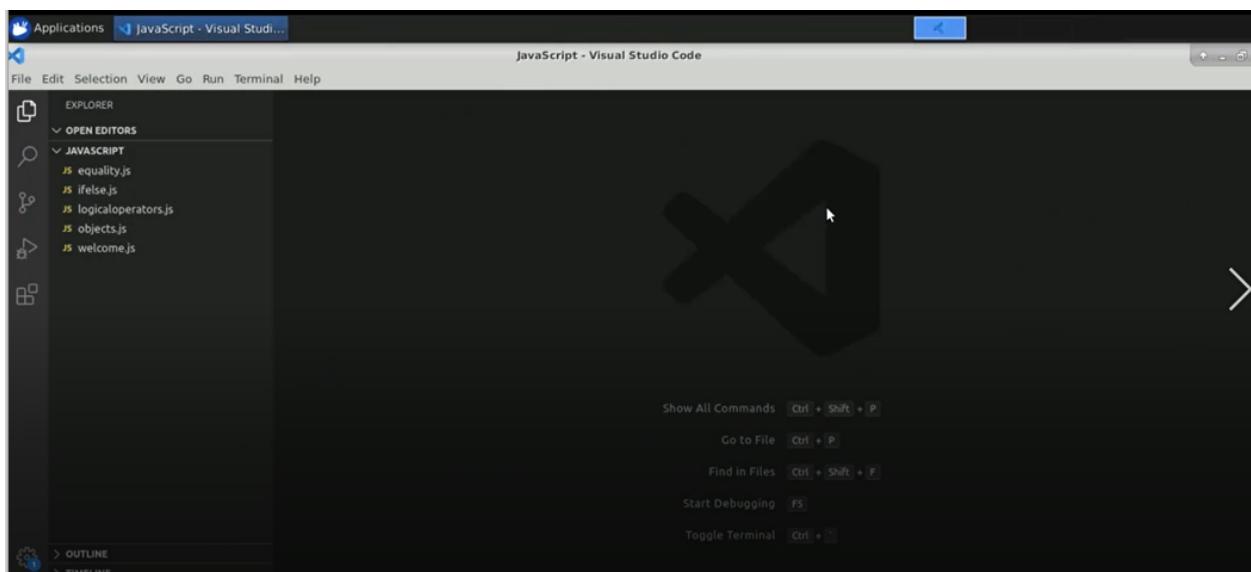
### Using Various String Built-in Methods

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

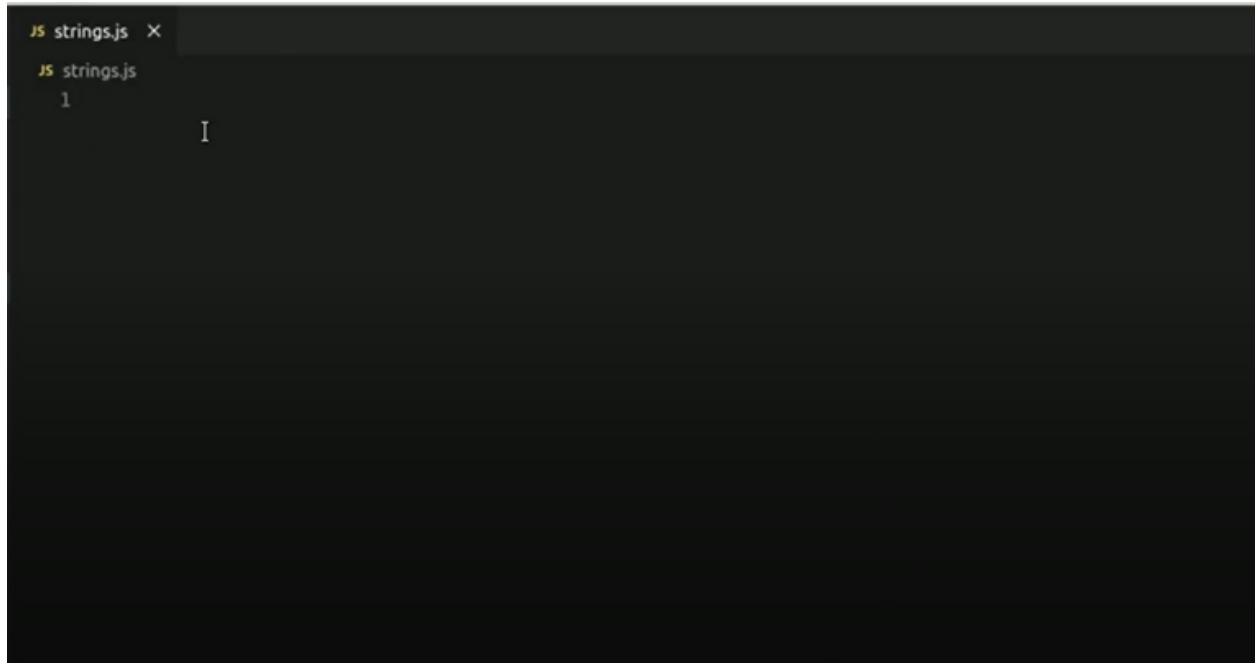
**Prerequisites:** None

#### Steps to perform:

1. Open a visual studio code.



2. Create a file name strings.js.

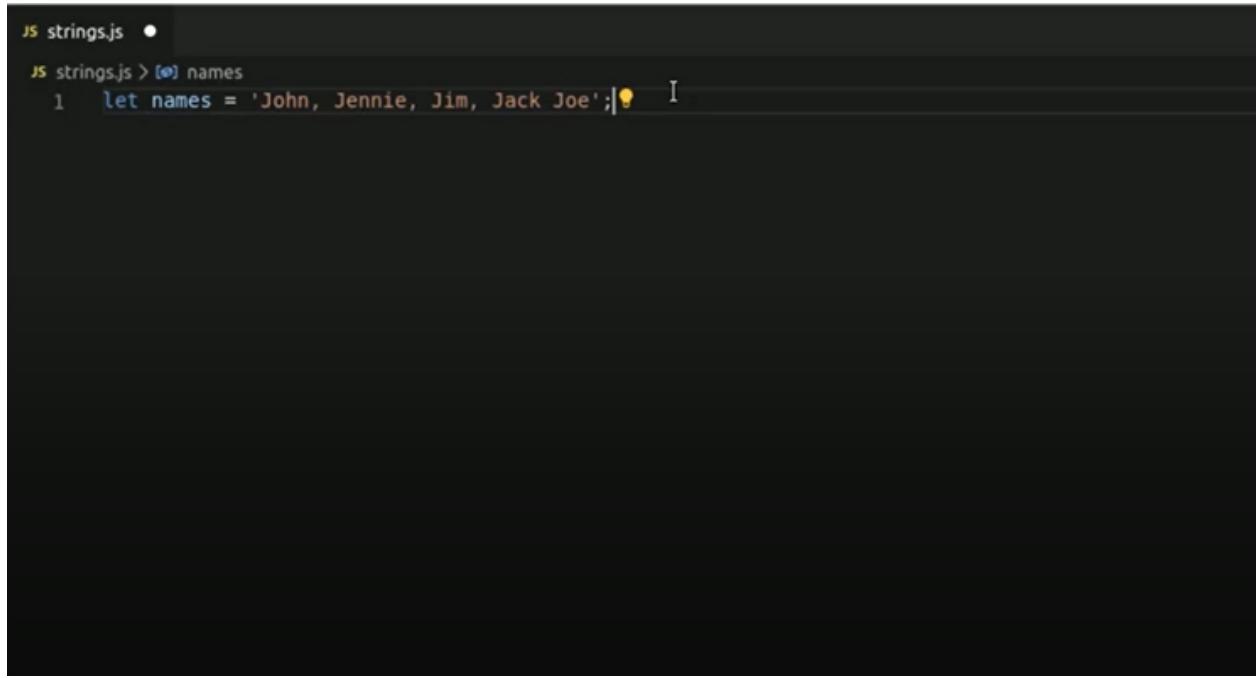


JS strings.js X

JS strings.js

1 I

3. Create a string variable.



JS strings.js ●

JS strings.js > [0] names

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

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  
erishant@gmail@ip-172-31-90-232:~/Desktop/JavaScript$ node strings.js  
names: John, 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  
erishant@gmail@ip-172-31-90-232:~/Desktop/JavaScript$
```

1: bash

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
```

7. Run the code in the terminal. Enter ‘node strings.js’.

```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
erishant@gmail@ip-172-31-90-232:~/Desktop/JavaScript$ node strings.js
names: John, 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
erishant@gmail@ip-172-31-90-232:~/Desktop/JavaScript$ node strings.js
names: John, Jennie, Jim, Jack Joe data type: string
27
erishant@gmail@ip-172-31-90-232:~/Desktop/JavaScript$ 
```

8. 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 
```

9. Run the code in the terminal. Enter ‘node strings.js’.

```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
erishant@gmail@ip-172-31-90-232:~/Desktop/JavaScript$ node strings.js
names: John, Jennie, Jim, Jack Joe data type: string
erishant@gmail@ip-172-31-90-232:~/Desktop/JavaScript$ node strings.js
names: John, Jennie, Jim, Jack Joe data type: string
27
erishant@gmail@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
erishant@gmail@ip-172-31-90-232:~/Desktop/JavaScript$ 
```

10. Enter ‘let result = names.toUpperCase()’

Enter ‘console.log(“Result is: “+result);’.

```
JS strings.js ✘  
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 ✘  
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
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
erishant@gmail@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[ let contactNames: string[] ]){
25         console.log(contactNames[idx]);
26     }
27 }
28
29
```

16. Run the code in the terminal. Enter ‘node strings.js’.

```
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
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
```

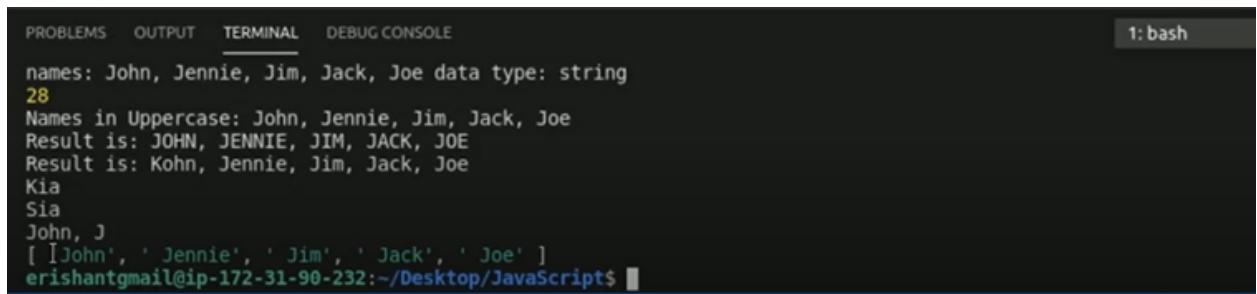
18. Run the code in the terminal. Enter 'node strings.js'.

```
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE 1: bash
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
Jjhon, J
erishant@gmail@ip-172-31-90-232:~/Desktop/JavaScript$
```

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

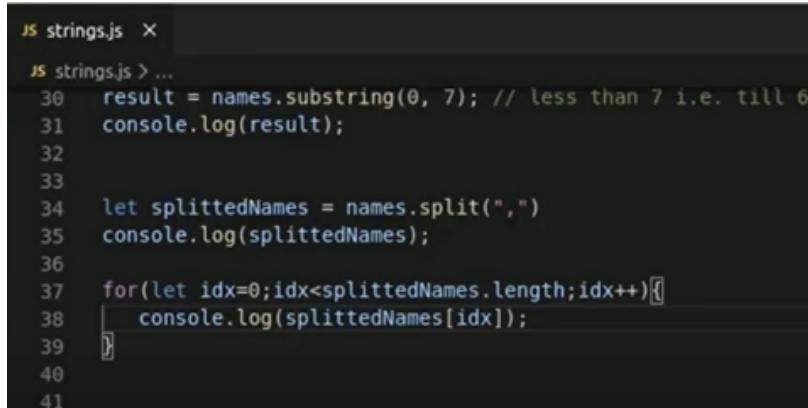
```
JS strings.js X
JS strings.js > ...
21   let searchKeyword = 'ia';
22
23   for(let idx=0;idx<contactNames.length;idx++){
24     if(contactNames[idx].endsWith(searchKeyword)){
25       console.log(contactNames[idx]);
26     }
27   }
28
29
30   result = names.substring(0, 7); // less than 7 i.e. till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

20. Run the code in the terminal.



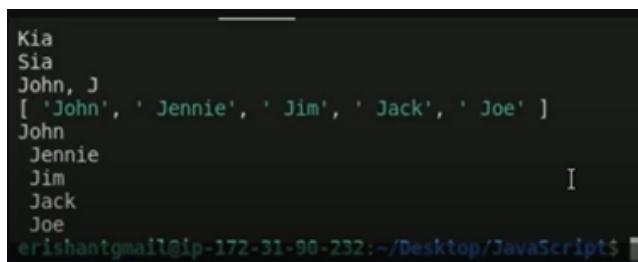
```
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
names: John, Jennie, Jim, Jack, Joe data type: string
28
Names in Uppercase: John, Jennie, Jim, Jack, Joe
Result is: JOHN, JENNIE, JIM, JACK, JOE
Result is: Kohn, Jennie, Jim, Jack, Joe
Kia
Sia
John, J
[ 'John', 'Jennie', 'Jim', 'Jack', 'Joe' ]
erishant@gmail@ip-172-31-90-232:~/Desktop/JavaScript$
```

21. Enter a for loop.



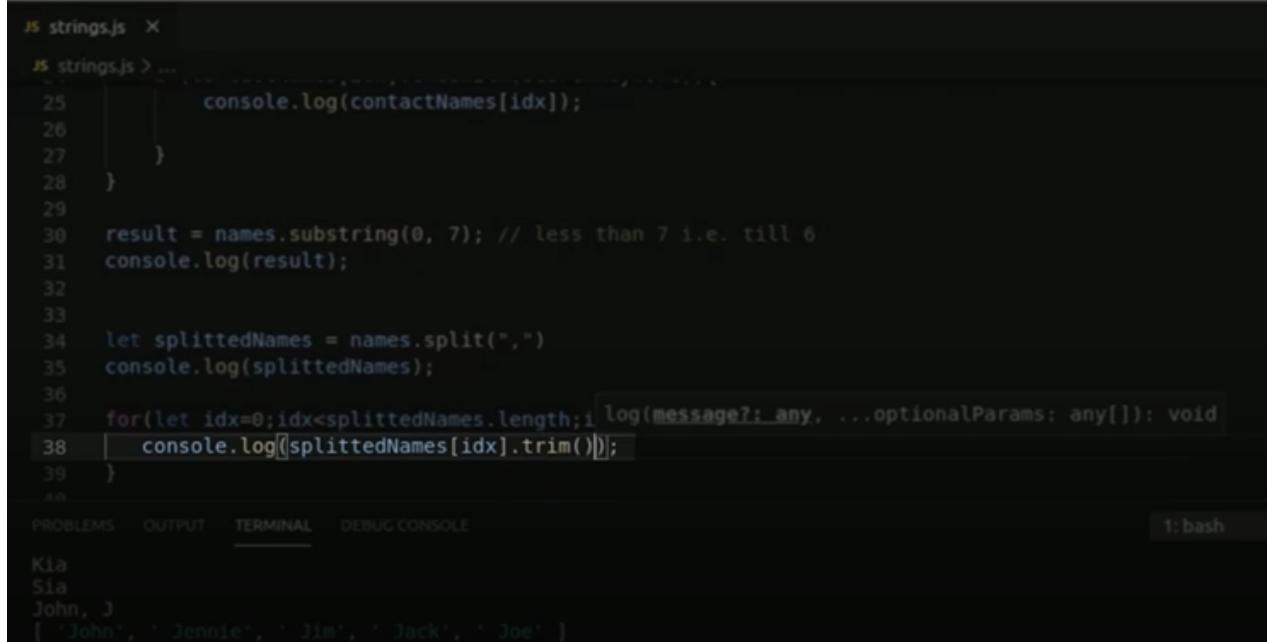
```
JS strings.js X
js strings.js > ...
30   result = names.substring(0, 7); // less than 7 i.e. till 6
31   console.log(result);
32
33
34   let splittedNames = names.split(",")
35   console.log(splittedNames);
36
37   for(let idx=0;idx<splittedNames.length;idx++){
38     console.log(splittedNames[idx]);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

22. Run the code in the terminal.



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

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

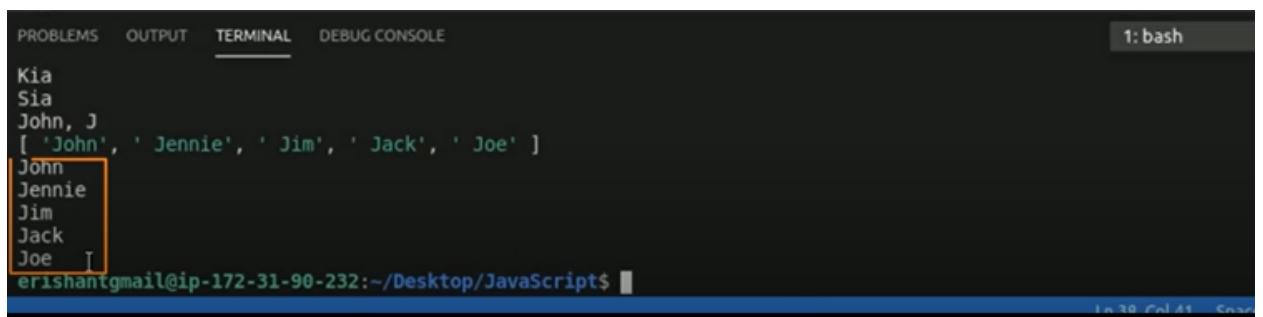


```
js strings.js X
js strings.js > ...
25         console.log(contactNames[idx]);
26     }
27 }
28 }
29
30 result = names.substring(0, 7); // less than 7 i.e. till 6
31 console.log(result);
32
33
34 let splittedNames = names.split(",");
35 console.log(splittedNames);
36
37 for(let idx=0;idx<splittedNames.length;i 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
```

erishant@gmail@ip-172-31-90-232:~/Desktop/JavaScript\$ █

