

```
JS PrintString.js > ...
1 //print login and the opentaps string from the URL:
2 const url = "http://leaftaps.com/opentaps/control/login";
3 const index = url.split("/");//[ 'http:', '', 'leaftaps.com', 'opentaps', 'control', 'login' ]
4 //
5 // "http:"->index[0]
6 // ""->index[1] → empty because of "/"
7 // "leaftaps.com"->index[2]
8 // "opentaps"->index[3]
9 // "control"->index[4]
10 // "login"->index[5]
11 //
12 const opentaps = index[3]; // "opentaps"
13 const login = index[5]; // "login"
14
15 console.log("opentaps:", opentaps);
16 console.log("login:", login);
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Playwright-workspace\Playwright-Testleaf\HomeAssignmentJAWeek1> node PrintString.js
opentaps: opentaps
login: login
PS C:\Playwright-workspace\Playwright-Testleaf\HomeAssignmentJAWeek1> 
```

```
JS ChangeString.js > ...
1 //Change the string login to main in the given URL
2 Originalurl = "http://leaftaps.com/opentaps/control/login";
3 console.log(Originalurl); // Output: http://leaftaps.com/opentaps/control/login
4 // Replace 'login' with 'main'
5 const Expectedurl = Originalurl.replace("login", "main");
6 console.log(Expectedurl); // Output: http://leaftaps.com/opentaps/control/main
7
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Playwright-workspace\Playwright-Testleaf\HomeAssignmentJAWeek1> node ChangeString.js
http://leaftaps.com/opentaps/control/login
http://leaftaps.com/opentaps/control/main
PS C:\Playwright-workspace\Playwright-Testleaf\HomeAssignmentJAWeek1> 
```

```
JS CheckIfPalindrome.js > ...
1 //check if a string is a palindrome
2
3 const input = "madam";
4 // Reverse the string
5 const reversed = input.split('').reverse().join('');
6
7 // Check if it's a palindrome
8 if (input === reversed) {
9   console.log("Palindrome:", input); // Output: Palindrome: madam
10 } else {
11   console.log("Not a palindrome");
12 }
13
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Playwright-workspace\Playwright-Testleaf\HomeAssignmentJAWeek1> node CheckIfPalindrome.js
Palindrome: madam
PS C:\Playwright-workspace\Playwright-Testleaf\HomeAssignmentJAWeek1> 
```

```
JS FrequentChar.js > ...
1 //find the most frequent character in a string
2 const input = "javascriptis"; //'a', 's', and 'i' each appear 2 times. But 'a' comes first, so it will be chosen.
3 let maxChar = ''; // stores the most frequent character found so far.
4 let maxCount = 0; //stores the highest number of times any character has appeared
5
6 for (let i = 0; i <= input.length-1; i++) //loop starts with i = 0 and goes up to input.length - 1.
7 {
8   let count = 0; //is used to count how many times input[i] appears in the string.
9   for (let j = 0; j <= input.length-1; j++) // loop compares input[i] to every other character in the string. If they match, it increases the count.
10   {
11     if (input[i] === input[j]) //count will hold how many times input[i] occurs in the string
12     {
13       count++;
14     }
15   }
16   if (count > maxCount) //If count is greater than maxCount, it means this character appears more than the previous most frequent one.
17   {
18     maxCount = count; //update maxCount.
19     maxChar = input[i]; //update maxChar.
20   }
21 }
22 console.log("Most frequent character:", maxChar)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Playwright-workspace\Playwright-Testleaf\HomeAssignmentJAWeek1> node FrequentChar.js  
Most frequent character: a

```
JS CountVowel.js > ...
1 //count the number of vowels in a string
2 const input = "functiona"; //u,i,o,a->4 vowels
3 let count = 0; // will keep track of how many vowels we find
4 for (let i = 0; i <= input.length-1; i++) //This loop runs from i = 0 to i = input.length - 1.
5 // loop runs from i = 0 to i = 8 (because "functiona" has 9 characters). It visits each character in the string one by one.
6 {
7   let char = input[i].toLowerCase(); //gets the character at position i
8   if (char === 'a' || char === 'e' || char === 'i' || char === 'o' || char === 'u')
9   {
10     count++;
11   }
12 }
13 console.log("Number of vowels:", count);
14
15
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Playwright-workspace\Playwright-Testleaf\HomeAssignmentJAWeek1> node CountVowel.js  
Number of vowels: 4