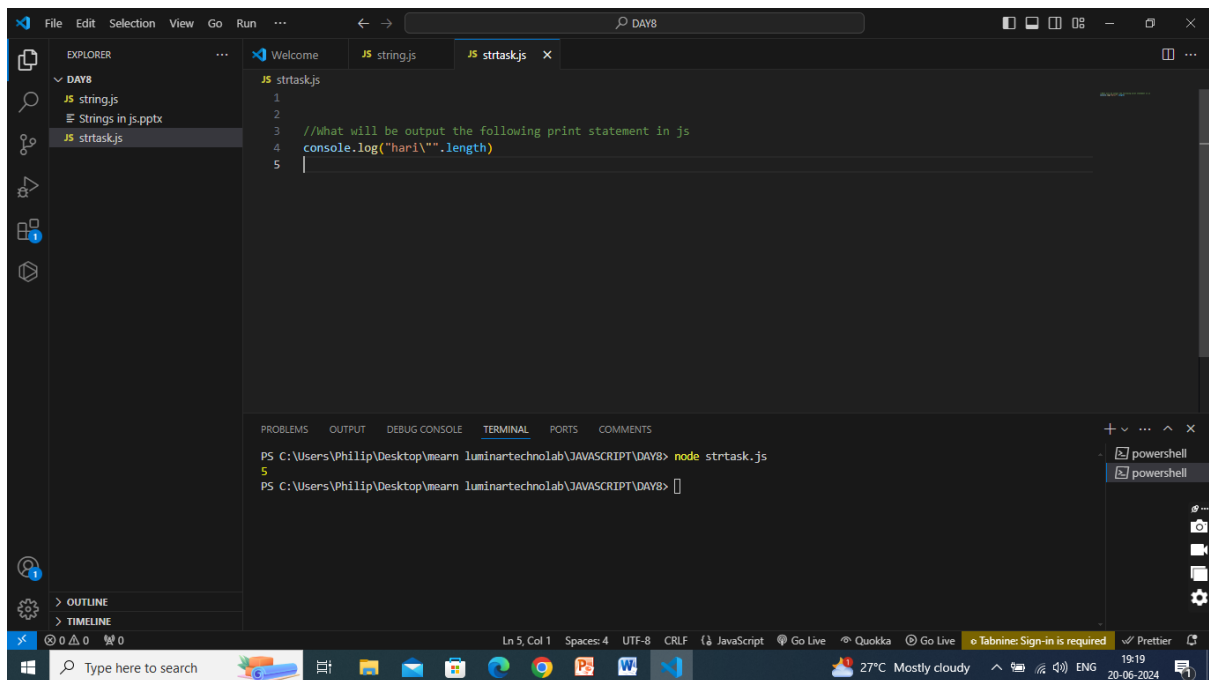


TASK

1. What will be output the following print statement in js `console.log("hari\".length)`



The screenshot shows the Visual Studio Code editor interface. The Explorer sidebar on the left shows a project named 'DAY8' with files 'string.js' and 'strtask.js'. The main editor window is open to 'strtask.js', which contains the following code:

```
1
2
3 //What will be output the following print statement in js
4 console.log("hari\".length)
5
```

Below the editor, the TERMINAL panel is open, showing the command `node strtask.js` being executed in a PowerShell window. The output of the command is `5`.

2. Explore the includes, startswith and endswith function of a string.

Startswith:

- The `startsWith()` method returns true if a string starts with a specified string.
- Otherwise it returns false.
- The `startsWith()` method is case sensitive.

Endswith:

- The `endsWith()` method returns true if a string ends with a specified string.
- Otherwise it returns false.
- The `endsWith()` method is case sensitive.

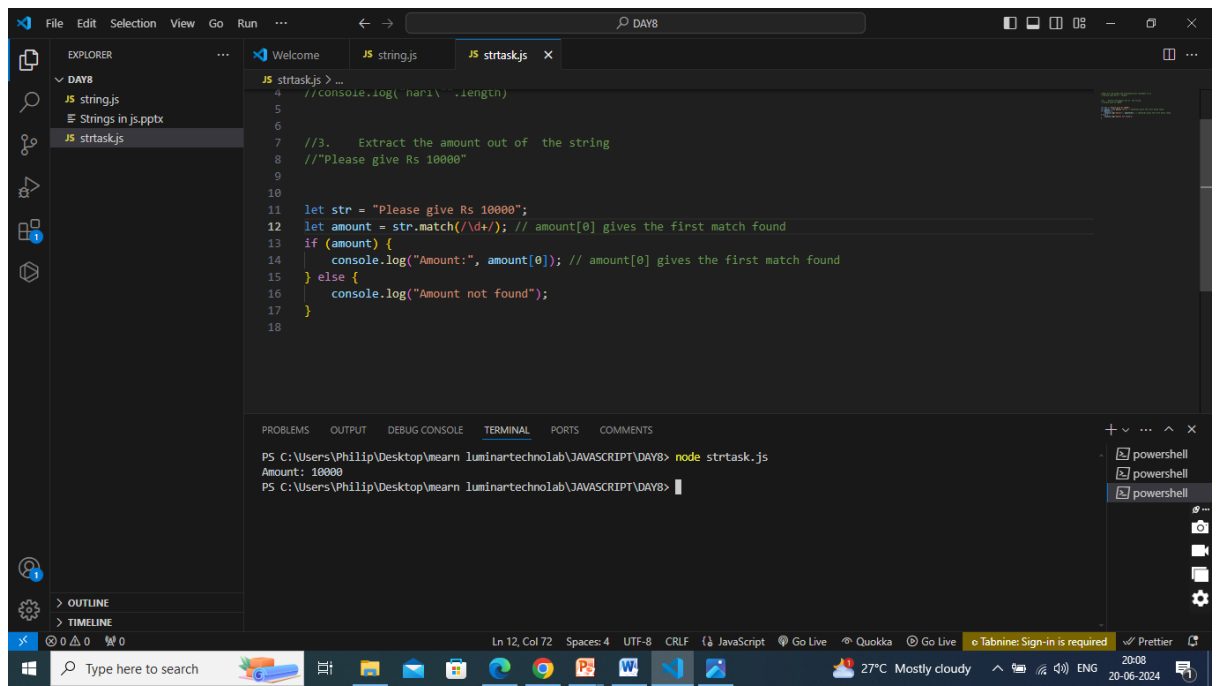
Includes

- The `includes()` method returns true if a string contains a specified string.
- Otherwise it returns false.
- The `includes()` method is case sensitive.

Syntax:

`string.includes(searchvalue, start)`

3. Extract the amount out of the string
"Please give Rs 10000"

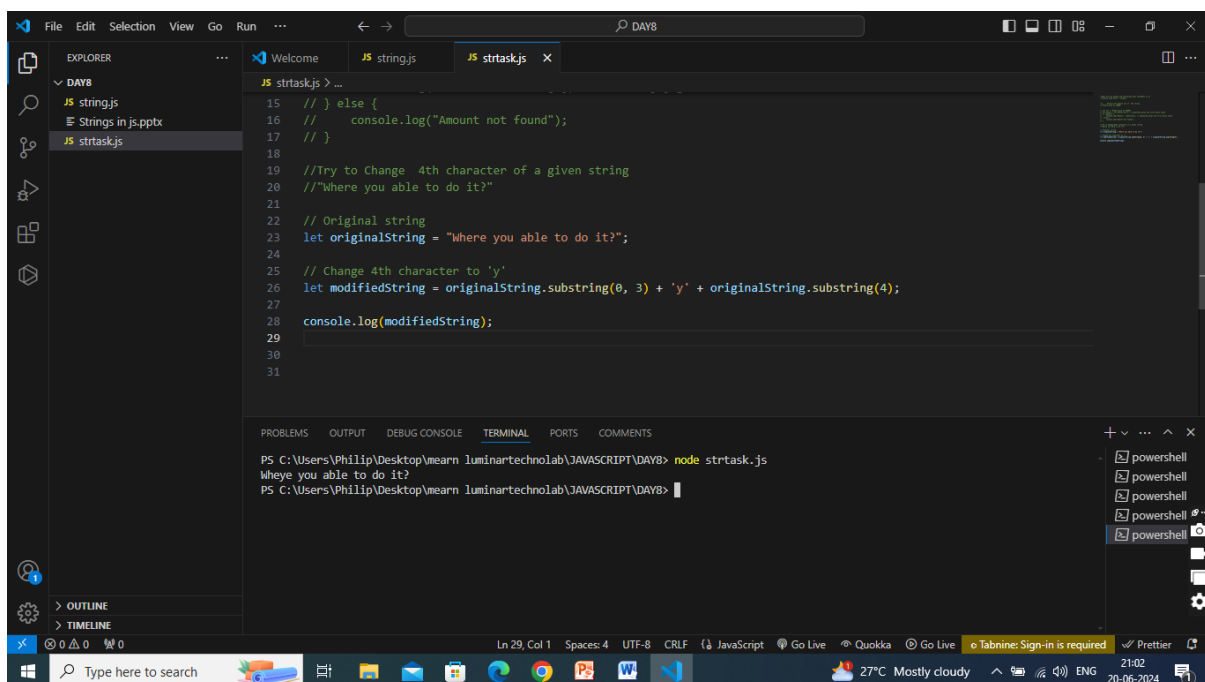


```
1 // console.log( nari.length)
2
3
4 //3. Extract the amount out of the string
5 // "Please give Rs 10000"
6
7
8
9
10
11 let str = "Please give Rs 10000";
12 let amount = str.match(/\d+/); // amount[0] gives the first match found
13 if (amount) {
14   console.log("Amount:", amount[0]); // amount[0] gives the first match found
15 } else {
16   console.log("Amount not found");
17 }
18
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS COMMENTS

```
PS C:\Users\Philip\Desktop\mearn_luminartechnolab\JAVASCRIPT\DAY8> node strtask.js
Amount: 10000
PS C:\Users\Philip\Desktop\mearn_luminartechnolab\JAVASCRIPT\DAY8>
```

4. Try to Change 4th character of a given string
"Where you able to do it?"



```
15 // } else {
16 //   console.log("Amount not found");
17 // }
18
19 //Try to Change 4th character of a given string
20 // "Where you able to do it?"
21
22 // Original string
23 let originalString = "Where you able to do it?";
24
25 // Change 4th character to 'y'
26 let modifiedString = originalString.substring(0, 3) + 'y' + originalString.substring(4);
27
28 console.log(modifiedString);
29
30
31
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS COMMENTS

```
PS C:\Users\Philip\Desktop\mearn_luminartechnolab\JAVASCRIPT\DAY8> node strtask.js
Wheye you able to do it?
PS C:\Users\Philip\Desktop\mearn_luminartechnolab\JAVASCRIPT\DAY8>
```

5. Note on All string methods with programs

1. `length` The `length` property returns the length of a string. `let str = "Hello, world!"; console.log(str.length); // Output: 13`
2. `charAt()` The `charAt()` method returns the character at a specified index. `let str = "Hello, world!"; console.log(str.charAt(0)); // Output: H`
3. `charCodeAt()` The `charCodeAt()` method returns the Unicode value of the character at a specified index. `let str = "Hello, world!"; console.log(str.charCodeAt(0)); // Output: 72`
4. `concat()` The `concat()` method concatenates two or more strings. `let str1 = "Hello"; let str2 = "world"; console.log(str1.concat(", ", str2, "!")); // Output: Hello, world!`
5. `includes()` The `includes()` method checks if a string contains a specified substring. `let str = "Hello, world!"; console.log(str.includes("world")); // Output: true`
6. `indexOf()` The `indexOf()` method returns the index of the first occurrence of a specified substring. `let str = "Hello, world!"; console.log(str.indexOf("world")); // Output: 7`
7. `lastIndexOf()` The `lastIndexOf()` method returns the index of the last occurrence of a specified substring. `let str = "Hello, world! Hello again!"; console.log(str.lastIndexOf("Hello")); // Output: 13`
8. `slice()` The `slice()` method extracts a part of a string and returns it as a new string. `let str = "Hello, world!"; console.log(str.slice(7, 12)); // Output: world`
9. `substring()` The `substring()` method extracts characters from a string between two specified indices. `let str = "Hello, world!"; console.log(str.substring(7, 12)); // Output: world`
10. `substr()` The `substr()` method extracts a part of a string, starting at a specified index and extending for a given number of characters. `let str = "Hello, world!"; console.log(str.substr(7, 5)); // Output: world`
11. `replace()` The `replace()` method replaces a specified value with another value in a string. `let str = "Hello, world!"; console.log(str.replace("world", "JavaScript")); // Output: Hello, JavaScript!`

12. toLowerCase() The toLowerCase() method converts a string to lowercase. let str = "Hello, WORLD!"; console.log(str.toLowerCase()); // Output: hello, world!

13. toUpperCase() The toUpperCase() method converts a string to uppercase. let str = "Hello, world!"; console.log(str.toUpperCase()); // Output: HELLO, WORLD!

14. trim() The trim() method removes whitespace from both ends of a string. let str = " Hello, world! "; console.log(str.trim()); // Output: Hello, world!

15. split() The split() method splits a string into an array of substrings. let str = "Hello, world!"; let arr = str.split(", "); console.log(arr); // Output: ["Hello", "world!"]

16. startsWith() The startsWith() method checks if a string starts with a specified substring. let str = "Hello, world!"; console.log(str.startsWith("Hello")); // Output: true

17. endsWith() The endsWith() method checks if a string ends with a specified substring. let str = "Hello, world!"; console.log(str.endsWith("world!")); // Output: true

18. repeat() The repeat() method returns a new string with a specified number of copies of the original string. let str = "Hello!"; console.log(str.repeat(3)); // Output: Hello!Hello!Hello

19. match() The match() method retrieves the matches of a string against a regular expression. let str = "The rain in SPAIN stays mainly in the plain"; let result = str.match(/ain/g); console.log(result); // Output: ["ain", "ain", "ain"]

20. search() The search() method searches a string for a specified value and returns the position of the match. let str = "The rain in SPAIN stays mainly in the plain"; let position = str.search("ain"); console.log(position); // Output: 5

21. padStart() The padStart() method pads the current string with another string until the resulting string reaches the given length. let str = "5"; console.log(str.padStart(4, '0')); // Output: 0005

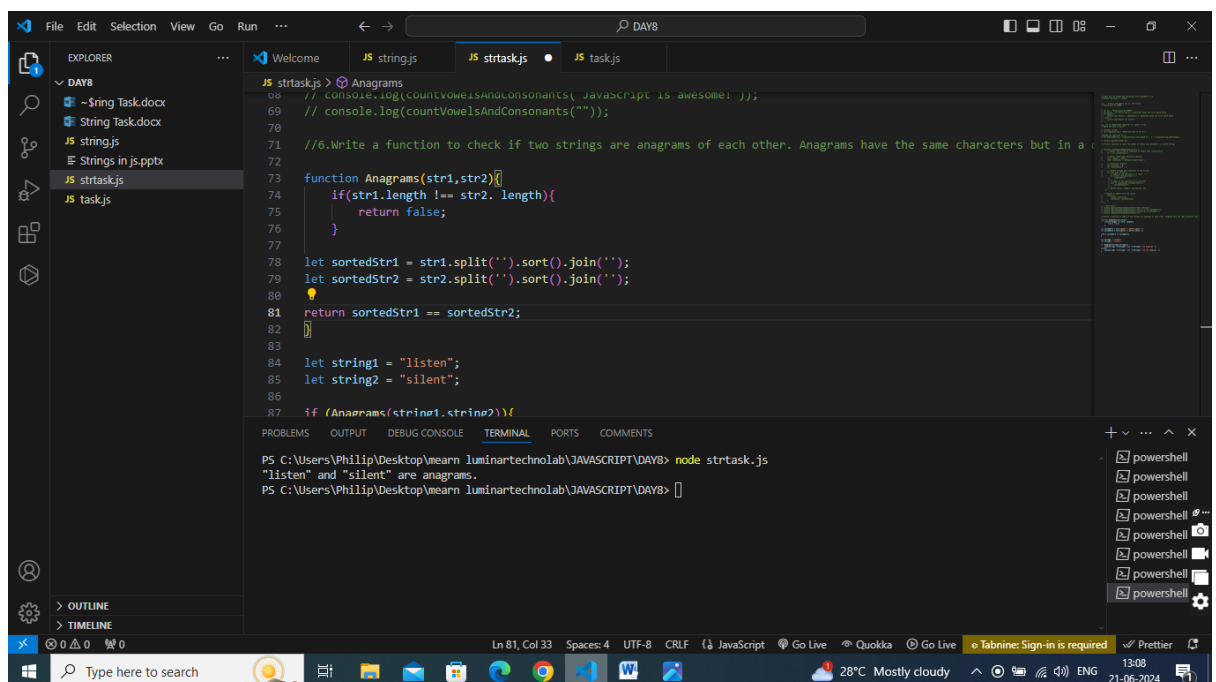
22. padEnd() The padEnd() method pads the current string with another string until the resulting string reaches the given length. let str = "5"; console.log(str.padEnd(4, '0')); // Output: 5000

23. `localeCompare()` The `localeCompare()` method compares two strings in the current locale. `let str1 = "a"; let str2 = "b"; console.log(str1.localeCompare(str2));` // Output: -1 (means str1 is less than str2)

24. `fromCharCode()` The `String.fromCharCode()` method returns a string created from the specified sequence of UTF-16 code units. `console.log(String.fromCharCode(72, 101, 108, 108, 111));` // Output: Hello

25. `raw()` The `String.raw()` method is a tag function of template literals. It returns a string where escape sequences are replaced with their literal counterparts. `console.log(String.raw`Hello\nWorld`);` // Output: Hello\nWorld (no newline character)

6. Write a function to check if two strings are anagrams of each other. Anagrams have the same characters but in a different order. For example, "listen" and "silent" are anagrams.

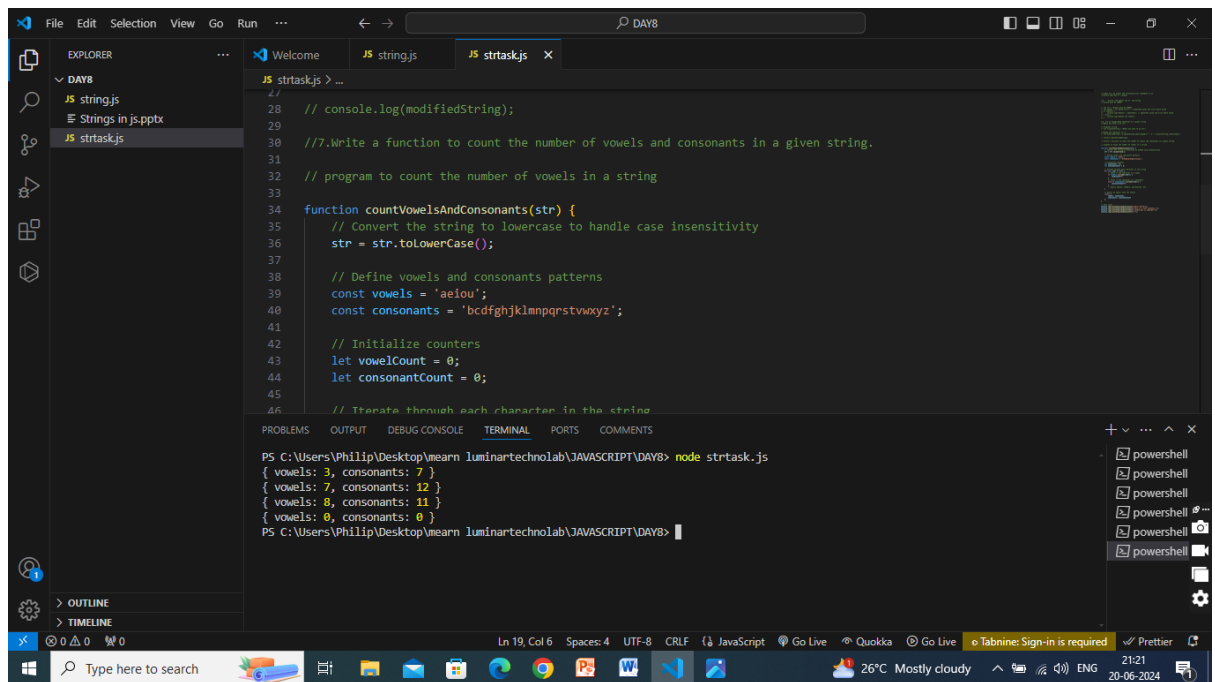


```
JS strtask.js
69 // console.log(countVowelsAndConsonants('JavaScript is awesome'));
70 // console.log(countVowelsAndConsonants(''));
71 //6. Write a function to check if two strings are anagrams of each other. Anagrams have the same characters but in a
72
73 function Anagrams(str1, str2) {
74   if (str1.length !== str2.length) {
75     return false;
76   }
77
78   let sortedStr1 = str1.split('').sort().join('');
79   let sortedStr2 = str2.split('').sort().join('');
80
81   return sortedStr1 === sortedStr2;
82 }
83
84 let string1 = "listen";
85 let string2 = "silent";
86
87 if (Anagrams(string1, string2)) {
88
89 }
90 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS COMMENTS

```
PS C:\Users\Philip\Desktop\mearn_luminartechnolab\JAVASCRIPT\DAY8> node strtask.js
"listen" and "silent" are anagrams.
PS C:\Users\Philip\Desktop\mearn_luminartechnolab\JAVASCRIPT\DAY8>
```

7. Write a function to count the number of vowels and consonants in a given string.

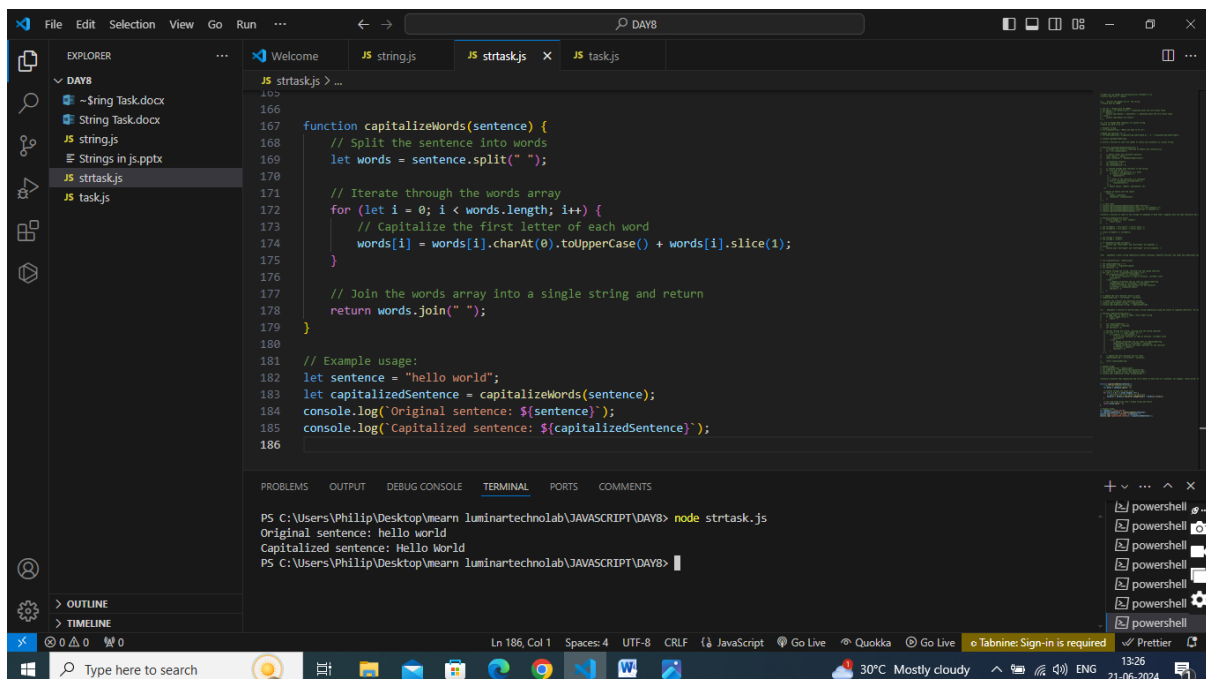


The screenshot shows a Visual Studio Code editor with a file named `strtask.js` open. The code defines a function `countVowelsAndConsonants(str)` that takes a string and returns an object with vowel and consonant counts. The function converts the string to lowercase, defines vowel and consonant patterns, initializes counters, and iterates through each character to count them. The terminal shows the command `node strtask.js` being executed, resulting in the output: `{ vowels: 3, consonants: 7 }`, `{ vowels: 7, consonants: 12 }`, `{ vowels: 8, consonants: 11 }`, and `{ vowels: 0, consonants: 0 }`.

```
1 // ...
28 // console.log(modifiedString);
29
30 //7. Write a function to count the number of vowels and consonants in a given string.
31
32 // program to count the number of vowels in a string
33
34 function countVowelsAndConsonants(str) {
35   // Convert the string to lowercase to handle case insensitivity
36   str = str.toLowerCase();
37
38   // Define vowels and consonants patterns
39   const vowels = 'aeiou';
40   const consonants = 'bcdfghjklmnpqrstvwxyz';
41
42   // Initialize counters
43   let vowelCount = 0;
44   let consonantCount = 0;
45
46   // Iterate through each character in the string
47   for (let i = 0; i < str.length; i++) {
48     if (vowels.includes(str[i])) {
49       vowelCount++;
50     } else {
51       consonantCount++;
52     }
53   }
54
55   return { vowels: vowelCount, consonants: consonantCount };
56 }
```

```
PS C:\Users\Philip\Desktop\mearn luminartechnolab\JAVASCRIPT\DAY8> node strtask.js
{ vowels: 3, consonants: 7 }
{ vowels: 7, consonants: 12 }
{ vowels: 8, consonants: 11 }
{ vowels: 0, consonants: 0 }
PS C:\Users\Philip\Desktop\mearn luminartechnolab\JAVASCRIPT\DAY8>
```

8. Write a function that capitalizes the first letter of each word in a sentence. For example, "hello world" should become "Hello World."



The screenshot shows a Visual Studio Code editor with a file named `strtask.js` open. The code defines a function `capitalizeWords(sentence)` that takes a sentence and returns a new sentence with the first letter of each word capitalized. The function splits the sentence into words, iterates through the words array, capitalizes the first letter of each word, and joins the words back into a single string. The terminal shows the command `node strtask.js` being executed, resulting in the output: `Original sentence: hello world` and `Capitalized sentence: Hello World`.

```
167 function capitalizeWords(sentence) {
168   // Split the sentence into words
169   let words = sentence.split(" ");
170
171   // Iterate through the words array
172   for (let i = 0; i < words.length; i++) {
173     // Capitalize the first letter of each word
174     words[i] = words[i].charAt(0).toUpperCase() + words[i].slice(1);
175   }
176
177   // Join the words array into a single string and return
178   return words.join(" ");
179 }
180
181 // Example usage:
182 let sentence = "hello world";
183 let capitalizedSentence = capitalizeWords(sentence);
184 console.log(`Original sentence: ${sentence}`);
185 console.log(`Capitalized sentence: ${capitalizedSentence}`);
186
```

```
PS C:\Users\Philip\Desktop\mearn luminartechnolab\JAVASCRIPT\DAY8> node strtask.js
Original sentence: hello world
Capitalized sentence: Hello World
PS C:\Users\Philip\Desktop\mearn luminartechnolab\JAVASCRIPT\DAY8>
```

9. Implement a function to perform basic string compression using the counts of repeated characters. For example, the string "aabcccccaaa" would become "a2b1c5a3."

```
File Edit Selection View Go Run ... DAY8
EXPLORER
  DAY8
    ~$ring Task.docx
    String Task.docx
    JS string.js
    Strings in js.pptx
    JS strtask.js
    JS task.js
  ...
  Welcome JS string.js JS strtask.js JS task.js
  JS strtask.js > ...
  121 // console.log("Original string:", originalString);
  122 // console.log("Compressed string:", compressedString);
  123
  124
  125
  126
  127 // 9. Implement a function to perform basic string compression using the counts of repeated characters. For example:
  128
  129 function compressString(input) {
  130   // Edge case: If input is empty, return empty string
  131   if (input.length === 0) {
  132     return "";
  133   }
  134
  135   let compressedString = "";
  136   let currentChar = input[0];
  137   let charCount = 1;
  138
  139   // Iterate through the string, starting from the second character
  140   for (let i = 1; i < input.length; i++) {
  141     if (input[i] === currentChar) {
  142       // If current character is same as previous, increment count
  143       charCount++;
  144     } else {
  145       // Append currentChar and its count to compressedString
  146       compressedString += currentChar + charCount;
  147       currentChar = input[i];
  148       charCount = 1;
  149     }
  150   }
  151   // Append the last character and its count
  152   compressedString += currentChar + charCount;
  153   return compressedString;
  154 }
  155
  156 console.log("Original string:", originalString);
  157 console.log("Compressed string:", compressedString);
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