```
// ReverseString.js > ...

// Home Assignment: Strings in JS

// Create a JavaScript function that accepts a string, reverses it, and checks if the reversed string is a

// palindrome, then test your function with various strings and print the results

function isPalindrome(str) {

let reversed = str.split("").reverse().join("");

console.log("Reversed:", reversed);

if (str === reversed) {

console.log("It is a palindrome.");

} else {

console.log("It is not a palindrome.");

} else {

// Test with input = "madam"

is isPalindrome("madam");

isPalindrome("playwright");

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Playwright-workspace\Playwright-Testleaf\HomeAssignmentWeek2> node ReverseString.js

Reversed: madam

It is a palindrome.

PS C:\Playwright-workspace\Playwright-Testleaf\HomeAssignmentWeek2> ■

PS C:\Playwright-workspace\Playwright-Testleaf\HomeAssignmentWeek2> ■
```

```
JS JavaScriptFunctions.js > 🗘 userProfile
      //Home Assignment: JavaScript Functions
//Task 1: Function Declaration
      function userProfile(name)
      {console.log(`Hello, ${name}!`);}
      userProfile("Aradhita");
      const double = (num) => num * 2;
      console.log("Double of 5:", double(5));
      setTimeout(function()
      {console.log("This message is delayed by 2 seconds");}, 2000);
//Task 4: Callback Function
      function getUserData(callback)
         setTimeout(() => {
           const user =
             name: "Arshi",
             age: 24
           callback(user);
         }, 3000);}
       // Call getUserData and log name & age
      getUserData(function(user) {
         console.log(`User Name: ${user.name}`);
         console.log(`User Age: ${user.age}`);
                                    TERMINAL
PS C:\Playwright-workspace\Playwright-Testleaf\HomeAssignmentWeek2> node JavaScriptFunctions.js
Hello, Aradhita!
Double of 5: 10
This message is delayed by 2 seconds
User Name: Arshi
User Age: 24
PS C:\Playwright-workspace\Playwright-Testleaf\HomeAssignmentWeek2>
```

```
JS String.js > ♦ lengthOfLastWord
       function lengthOfLastWord(input) {
         input = input.trim();
         let words = input.split(" ");
         let lastWord = words[words.length - 1];
         let length = lastWord.length;
        return { word: lastWord, length: length }; // Return both as an object->word: "World", length: 5
       let result1 = lengthOfLastWord("Hello World");
       console.log(`The last word is "${result1.word}" with length ${result1.length}`);//world-5
       let result2 = lengthOfLastWord("fly me to the moon");
       console.log(`The last word is "${result2.word}" with length ${result2.length}`);//moon-4
       function isAnagram(str1,str2) {
         let s1 = str1.split(" ").join("").toLowerCase();//"silent"
let s2 = str2.split(" ").join("").toLowerCase();//"listen"
// Step 2: Sort the characters
         let sorted1 = s1.split('').sort().join('');//["s", "i", "l", "e", "n", "t"]->["e", "i", "l", "n", "s", "t"]->"eilnst"
let sorted2 = s2.split('').sort().join('');//["l", "i", "s", "t", "e", "n"]->["e", "i", "l", "n", "s", "t"]->"eilnst"
        return sorted1 === sorted2;
       }console.log(isAnagram("silent","listen"));//true
       console.log(isAnagram("hello","world"));//false
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
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Node.js v22.16.0
PS C:\Playwright-workspace\Playwright-Testleaf\HomeAssignmentWeek2> node String.js
The last word is "World" with length 5
The last word is "moon" with length 4
true
false
```