**Assignment for Day 3😀🌿🚀**

1. List all the Escape Sequences characters in JavaScript.

Code Result

\b Backspace

\f Form Feed

\n New Line

\r Carriage Return

\t Horizontal Tabulator

\v Vertical Tabulator

\' Single quote

\" Double quote

\\ Backslash

2. Explain with example length and substring methods in JavaScript

* The length property returns the length of a string:
* Example  
  let txt = "ABCDEFGHIJKLMNOPQRSTUVWXYZ";

let length = txt.length;

console.log(length)

// output: 26

* Substring method extracts a part of a string and returns the extracted part in a new string.
* Same as Slice method, The difference is that start and end values less than 0 are treated as 0 in substring.
* Example:

let str = "Apple, Banana, Kiwi";

let part = str.substring(7, 13);

// output : Banana

3. What are padStart and padEnd in JavaScript, explain with an example.

* padStart() and padEnd() to support padding at the beginning and at the end of a string.
* padEnd Method Example:

const str1 = 'Breaded Mushrooms';

console.log(str1.padEnd(25, '.'));

// output: "Breaded Mushrooms........"

* padStart Method Example:

const str1 = '5';

console.log(str1.padStart(4, '0'));

// output: "0005"

const fullNumber = '2034399002125581';

const last4Digits = fullNumber.slice(-4);

const maskedNumber = last4Digits.padStart(fullNumber.length, '\*');

console.log(maskedNumber);

// output: "\*\*\*\*\*\*\*\*\*\*\*\*5581"

4. Define Global Object in JavaScript along with the global scope.

* Global Object: A global object is an object that always exists in the global scope.
* In JavaScript, there's always a global object defined. In a web browser, when scripts create global variables defined with the var keyword, they're created as members of the global object.
* The window object is the Global Object in the Browser
* Global Scope: In a programming environment, the global scope is the scope that contains, and is visible in, all other scopes.
* In client-side JavaScript, the global scope is generally the web page inside which all the code is being executed.

5. List all the names of JavaScript engines present currently.

* V8
* Chakra
* Spider Monkey
* Javascript Core Webkit