FSD Theory Assignment 2

Q. What is a number object in JavaScript? What are the 2 ways to create a string in JavaScript? Explain the use of it with the help of an example.

Ans.

In JavaScript, the **Number object** is a built-in object that provides functionality for working with numeric values. It is associated with the primitive data type "number," which represents both integer and floating-point (decimal) numbers. The Number object provides various properties and methods for performing operations and conversions on numeric values. Here's a brief overview of the Number object and its key aspects:

Properties of the Number Object:

- Number.MAX_VALUE: Represents the largest positive finite value that can be represented by a JavaScript number.
- Number.MIN_VALUE: Represents the smallest positive nonzero value that can be represented by a JavaScript number.

Methods of the Number Object:

- Number.parseFloat(): Parses a string argument and returns a floating-point number.
- Number.parseInt(): Parses a string argument and returns an integer.
- Number.toFixed(): Formats a number to a specified number of decimal places and returns a string representation.
- Number.toString(): Converts a number to a string representation with an optional radix (base).

Two ways to create strings in JavaScript and their usage:

1. Using Single or Double Quotes:

You can create a string by enclosing characters within single (') or double (") quotes. Both single and double quotes are used interchangeably to define strings.

For example:

```
O homeAtmil U O destinations.html U O destination.details.htm U O gallery.html U O contact.html U # styles.css U # index;s U X O dema.html U D 1 1 1 var singleQuotedstring = 'Nello, I am a single-quoted string.';
2 var doubleQuotedstring = 'Nello, I am a double-quoted string.';
3 console.log(singleQuotedstring);
5 console.log(doubleQuotedstring);

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PS D:\NP Advanced pode "di\NP Advanced\index.js"
Nello, I am a single-quoted string.
Nello, I am a single-quoted string.
Nello, I am a double-quoted string.
Nello, I am a double-quoted string.
D Code

PS D:\NP Advanced pode "di\NP Advanced\index.js"
Nello, I am a double-quoted string.
```

2. Using Template Literals (ES6+):

ES6 introduced template literals, which are enclosed by backticks ('). They allow you to embed expressions and multiline strings within the string. Template literals also support string interpolation, making it easier to combine variables and text.

For example:

Let's consider an example that demonstrates the use of strings and numbers in JavaScript: