



WELCOME TO 10 DAYS WEB DEVELOPMENT WORKSHOP

COVERS HTML, CSS AND BASIC JS

#DAY9

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DAY 9 AGENDA

JAVASCRIPT

Strings (string literal, new String, methods {charAt, charCodeAt, concat, indexOf, lastIndexOf, search, match, replace, replaceAll, substr, substring, slice, toLowerCase, toUppercase, toString, valueOf, split, trim}), DOM manipulation

STRINGS

JavaScript string is an object that represents a collection of characters





CREATING STRINGS

1

String literal

2

string object

STRING LITERAL

we can create strings using string literal

SYNTAX

```
let str = "value";
```





USING STRING OBJECT

we can create strings using String object

SYNTAX

```
let str = new String("value");
```

STRING METHODS

- **charAt**: finds the character at given position
- **charCodeAt**: finds the unicode value of character
- **concat**: combines two or more strings
- **indexOf**: finds the index of specified character
- **lastIndexOf**: finds the last index of specified character
- **replace**: replace the specified string with new string
- **replaceAll**: replace all the specified string with new string



STRING METHODS

- **substr**: returns part of string from specified index
- **substring**: returns part of string from startIndex to endIndex
- **slice**: same as substring but also accepts negative values
- **toLowerCase**: returns a string converted to lowercase
- **toUpperCase**: returns a string converted to uppercase
- **toString**: returns a converted string from a string object
- **split**: returns an array after splitting it
- **trim**: removes white space from start and end of string



DOM MANIPULATION

JavaScript can access HTML elements and change them which is known as DOM manipulation



WHAT JAVASCRIPT CAN DO ON DOM

- change HTML elements
- change HTML attributes
- create HTML elements
- create HTML attributes
- remove HTML elements
- remove HTML attributes
- change css styling
- can handle events



ACCESSING ELEMENT

- **getElementById:** returns the element of specified id
- **getElementsByClassName:** returns all the elements with specified class
- **getElementsByTagName:** returns all the element with specified name
- **getElementsByTagName:** returns all elements with specified tag
- **querySelector:** finds an element with tagname or attributes
- **querySelectorAll:** finds elements with tagname or attributes

properties to change HTML elements

- `elem.innerHTML = val`: changes the innerHTML of an element
- `elem.attribute = val`: changes the value of an attribute
- `elem.style.property =` changes the style of an element

methods to change HTML elements

- `elem.setAttribute(attrib, val)`: sets or change html attribute



ADDING AND REMOVING ELEMENTS

- **document.createElement(elem):** creates an element
- **document.removeChild(elem):** removes an element
- **document.appendChild(elem):** adds an element
- **document.replaceChild(new, old):** replace an element
- **document.write(text):** writes in webpage
- **elem.remove():** removes an element



DOM EVENT LISTENERS

- onclick
- onmouseover
- onmouseout
- onmousedown
- onmouseup
- onmousemove
- onkeydown
- onkeyup
- onfocus
- onblur
- onsubmit
- onchange



Assignment

create a program which takes the favorite foods of 3 people as input and create 3 different unordered lists and display the favorite foods in each list item on the document (give your own styling)

THANK YOU!

DAY 9 WAS AWESOME HAVING YOU!
HOPE WE GAVE THE BEST

DAY 9 OVER

