**JAVASCRIPT**

If a piece of code is capable of making decisions, it is called a program.

MOCHA 🡪 Live Script 🡪 JavaScript \*created by Netscape, managed by ECMA

*Primitive datatypes* – number, string, Boolean, null, undefined

*Non-primitive datatypes* – array, object

Set of rules that need to be followed is called syntax.

Keywords are terms which have predefined meaning in the programming language.

Interpolation / Template literal / Template string – is a new way to print stuff on console.

*Conditionals* – If-Else, Switch case, Ternary operator.

ARRAY METHODS 🡪

1. **length** – returns length of array
2. *array*.**push**(*value*) – add item to the end of array
3. *array*.**slice**(*start, end*) – return new array containing part of original array
4. *array*.**splice**(*index, no. of items to be removed, items to add*) – modifies original array
5. *array1*.**concat**(*array2*) – merge two or more arrays into a new one
6. *array*.**copyWithin**(*target, start, end*) – replace items with other items within the array
7. *array*.**includes**(*value, index*) – check if a value is present in array at given position \*optional
8. *array*.**indexOf**(*value*) – find position of item in array

**Higher Order Functions (take functions as parameters or return a function)**

* ***Call Back Function***: function passed as parameter to a HOF
* ***setTimeOut***: calls a function after a certain time (important for Event loops)
* ***setInterval***: keeps executing a function at given intervals
* ***forEach***: loops a function over an array - *array*.**forEach**(*function(value)*)
* ***Map***: loops a function over original array and modify it
* ***Filter***: separate items of an array based on given condition
* ***Reduce***:

\*Data types, conditions, Math, array (methods), loops, functions, date, objects, HOF, functional programming (forEach, map, filter, reduce, every, .sort)

Destructuring is a way to store each array item in a separate variable.

Spread operator is used to pass array values as individual parameters, opposite to Rest operator which stores given parameters as an array.