## Day 8

| X   | Functions :-   |
|-----|--|
|     | with functions we can take several lines of code   |
|     | that performs a set of related action and then group   |
| 5   | them together under a single label. Then when we   |
|     | need to run the code that we've sound so is it   |
|     | need to run the code that we've soved, we just invoke or call the function.  |
|     |  |
|     | wont. We can run the code as many times as we  |
| 10  | in the state of th |
|     | function my func () {  |
|     | console, las ("Hella Mardol");   |
|     | console log ("Hello World!");  |
|     | i founded ambu salabisatio thioain   |
| 151 | my func (); ele not a million es el den es   |
|     |  |
|     | too property value of the orject.  |
|     | function add Two Nums (a,b) { Function with parameters   |
|     | vor c = a + b;   |
| 20  | console log (c);   |
|     | 7  |
|     | add Two Nums (2,4);  |
|     | add_ Two_Nums (S, P);  |
|     |  |
| 25  |  |
|     | Array:   |
|     |  |
|     | Array Literal Syntax ()  |
|     |  |
| 30  | yor skills = ["HTML" "CSS" "Python", "C++"];   |
|     |  |
|     | (onsole.log (skills (o));  |
|     | - \ HTMI   |

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- Values in an arroy ore all part of a group.

- Values are set in specific sequence.

- Values can be accessed with their index numbers.

Dojects:

Objects:

Objects we can short our variable names

and getting javascript to understand that all

those variables are related:

Objects can be described as collections of

related properties where each property is represented

related properties where each property is represented as a key value pair. This means that what is normally a variable name becomes a property key and what is normally a variable's value becomes

the property value of the object.
Object can also be built by listing the key

Specifies them as comma delimited properties.

var user = { }; // create an object

Arrays are objects:

In javascript, arrays are objects. That means that arrays also have some built-in properties and method.

One of the most commonly used built-in methods on arrays are the push () and the pop () method.

use the push () method.

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Vor fraits = []; // C'apple', 'pear') fruits · push ("opple"); fruits · push ("pear");

To remove the last item from an away, we can use the pop () method.

fruits.pop(); console.log (fruits); // ('apple')

We can coll the array Builder () function for example like this:

array Builder ('apple', 'pear', 'plum');

Math object :-

Rounding methods:

- · moth-ceil () rounds up to closest integer
- · Math. floor() rounds down to the closest integ
- · Math. round() round up to closest integer.
  · Math. Irun(() trim this decimal ileaving only

25 the integer

Random method - A part of the math object that can generate a number between a and o.gg

Math. random ();

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|       |   |
|       | Cenerale random no between o and la   |
|       | vor decimal = Math. random () *10;<br>vor rounded = Math.ceil (decimal);  |
| 5     | Voi rounded = Math.ceil (decimal):  |
|       | Console·log (rounded) i   |
| ×     | String:   |
| 10    | Var place = "Hello,";   |
|       | Var place = "world"   |
| 2.2.7 | All strings have at their disposal several bailt-in   |
|       | properties but there is a single property that is   |
| 15    | All strings have at their disposal several bailt-in properties, but there is a single property that is really useful. The length property |
|       | greet.length;   |
|       | Ti la   |
| 20    | The concat() method joins two string  |
|       | Some methods - index of ()  |
|       | TOST INDEXUA  |
| 4     | Split ()  |
| 25    | to Opper Case () to lower (ase ()   |
|       |   |
| X     | TypeOf:   |
|       | javoscript operator that evaluates a parameter and returns the data type as a string.   |
| 30    | Vor test = typeOf (10) => number  |
|       | Vor test = typeOf (to) => number  Var test = typeOf (true) => Boolean   |
|       |   |

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Bugs and errors: Some common error types -1) Syntax error 2) reference emor 3) type error. 4) Range emor error con be defined as a faulty piece of code that prevents the program from further execution, an error gets thrown and the program stops. \* Try catch block Dtry and catch - If a piece of code throws on error it can get wrapped inside a try block. Then we can catch the error with cotch black and use it to do something. 3 catch (em) { //do something here... consolelog ("This line now runs"); 2) Throw - Using the throw keyword, we can force an error to be thrown from the try block to the catch block. P.g try & throw hew for or (); console. log ("This line now runs");

| *    | Undefined, null and empty values   |
|------|--|
|      | DN411 - Represents intentional absence of object   |
| 5    | Value  |
|      | 2) Undefined data type can only hold one value undefined                                       |
|      | All functions return undefined by default unla<br>it's been decided to return a specific value |
| 10   | 1/181 ECIO.  |
|      | When a variable is declared without an assignment undefined value appears.                     |
|      | - 10 800 th D 3 2 2 10 10 10 10 10 10 10 10 10 10 10 10 10                                     |
|      | 3) empty - The String without any characters insport of it and it can be built in a few ways   |
|      | such as with single quotes or doubte quotes with no characters in between them:                |
|      | between them   |
| 20   |  |
|      |  |
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