3/05/24

ASSIGNMENT - 2.1

Variables in Javascript:

Var la; // Variable

Var b= "init"; // String

var C = 1+ &+ "3"; // typecast to string "33".

Var d = [2,3,5,8]; // array

Var e = true // boolean

var f = function () { }; // function object

const PI = 3.14; // constant

let z = 'zzz'; // block scope

** let is block-scoped and can be reassigned const is also block-scoped but cannot be reassigned.

Data Types: - Number, String, Boolean, Object, Array, Null, undefined.

Operators: - Arithemotic (+,-,*,1), Comparison (==,===, !=,!==,>,<,>=,<=) logical (ld,11,!) logical (ld,11,!) logical (ld,11,!) logical (ld,11,!)

Output in Js:-

console. Log (a); // write to the browser.

document. write (a); // write to HTML.

valent (a); // output in an about.

confirm ("Hello") // "yes" or "no" dialog.

prompt ("Your age?", "O"); // input dialog.

```
Control Flow:
 · Conditional Statements: - (if, else-if, else)
       if (age > 18)
            console. log ("Eligible");
       else if (age == 18)
            console log (" Yes");
        else
             console. log ("No").
 · Switch Statements: - (Switch, case, break)
          switch (n) 3
              case 1:
                   dext = "Monday";
                   break;
             case 2:
                     text = "Tuesday";
                     break;
              default:
                     teat = " Sunday";
 · Loops:-
1 For Loop:-
                        2 While Loop
                                                 Do While loop: -
                                             (3)
                           vac= i=0;
                                                 Vari= 10;
for( var i=0; i<5; i++)
                            while (i <= 0)
                                                 do { i=i-1;
    Console. log(i);
                            ? console log (i);
                                                    Consol. log (i);
Swhile (i <= 0);
★ functions in JS:-
   - Function Declaration:
                                     · Anonymous function:
                                        const function =
function function (procumeters)
                                                 function (parameters) }
     Mode;
                                                 11 code;
  · Arrew function:
                                    · Function Invocation:
  const functione = (parameters) = }
                                      func Name (arguments)
       Made;
```

con cat () Arrays :push() join() Creation: pop() const away Name = [ele1, ele2,...] indexOf () shift() find() unshift () Assessing Elements: filter(). splice () arrayName [index] slice () map () for Each () * Objects:-Adding / Updating: (reation: Object Name - newkey = new Value const objectName = { key1: "value", key 2: val 2"} Remove:-Accessing: Object Name- key delete objedName.key DOM Manipulation: Changing Content: Selecting Elements: element. inner HTML document. get Element By Id (), element. text Content, document. Set Element By Class Name (1), Clement. Value. document. get Element By Tay Name (), clement. Style. property = value. ** For Styling: * Events:-Event Handleds: Event historier: event.addEventLiskner ('event', function () { element. on dick, element. On mouse ones, element. on submit. Error Handling:-Asynchronous Js:try... catch... finally · Callbacks · Promises: try? 1/wde that may give error new Promise ((resolve, reject)=> 3 (cotch (error) } { // wde }), promise. then (), //code to handle error promise. (atch (), . I finally I · Async/Await :-Mode that always Juns. async function function () { // code }, await promise