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CODEKATA
// JS - Javascript - Programming Language
                              // Scripting Language -> Javascript
                           // Compiled Language -> C++, Java etc
                                  // Blocking - Synchronous
                                // Non-Blocking- Asynchronous
                                          // Javascript
             // - JS is single threaded. (it will execute one execution at a time.)
// - Non-Blocking I/O (Asynchronous) operations, because of a mechanism; (Event Loop)
                     // - Used for Client and Server side programming.
           \ensuremath{/\!/} Threads - is used to carry out the process/execution one at a time.
                                          // - Datatype
                                          // - Variable
                                         // - Operators
                                   // - Looping Statements
                                  // - Conditional Statements
                                         // - Functions
                                    // - Objects and Arrays
                                       // - Class (OOPS)
                         // Object Oriented programming Language
                         // Typescript(OOPS) -> parent of Javascript
                                          // - Datatype:
                                // data -> values or information
                                         // Datatype ->
      // Numbers - 1, 100, 50, -5, -10, 0.001, 0.6 (including integers, float, double) // String - "priya", "john", "chennai", "India", "Cricket", "How are you?", "a", "b"
                                    // Boolean - true, false
                                     // console.log("Hello")
                                     // console.log(12345)
                                      // console.log(true)
```

// Variable - is used to hold some values or data // var, let, const // Declaration and Assignment // var username = 'John';

// // typeof - keyword used to find the type of the data

// console.log(typeof "hello"); // console.log(typeof 100); // console.log(typeof false);

// console.log(typeof -123); // console.log(typeof "1000"); // console.log(typeof "true")

// console.log(typeof 'Hey');

// let city = 'Bangalore'; // const gender = 'Male';

// console.log(username) // console.log(city) // console.log(gender) // // Declaration // var myValue1; // //Assignment: // myValue1 = 1000;

// var myValue1 = 1000;

// var - can be redeclared and can be reassigned // let - cannot be redeclared but can be reassigned // const - cannot be redeclared and cannot be reassigned.

> // var value1 = 'ABC'; // var value3 = 'PQR'; // var value1 = 'XYZ';

// value1 = 'Hello'; // console.log(value1);

// let value2 = '123'; // // let value2 = '456'; // value2 = 'How are you?'; // console.log(value2)

// const bloodGroup = 'O+ve' // const bloodGroup = 'A-ve' // bloodGroup = 'B +ve' // OPERATORS:

// Arithmetic = +, -, \*, /, % // console.log(5 + 2)

// console.log(5 - 2); // console.log(5 \* 2); // console.log(5 / 2); // console.log(5 % 2);

// Logical // AND (&&) - true and true = true, if any one input is false, the output will be false // OR (||) - if anyone is true , the output will be true if both are false, then the output will be false. // NOT (!) - if it is true, output will false. if it is false, output will be true. // NAND - true and true = false, if any one input is false, the output will be true // NOR - if anyone is true , the output will be false.if both are false, then the output will be true.

// console.log(true && true); // true // console.log(true || true) // true // console.log(true || false); // true // console.log(false && true); // false // console.log(!true); // false

// console.log(!(true || true)) // false // console.log(!(true && false)); // true

> // Comparison // > // < // >= // <= // == // !=

// console.log(5 > 2) // true // console.log(5 == 2); // false // console.log(5 <= 5); // true // console.log(5 != 4); // true // console.log(5 < 5); // false

// == -> checks only for the value // === -> checks for the value and its datatype // console.log(5 == '5'); // true

// console.log(5 === '5'); // false // console.log(5 === 5); // true

// console.log( 5 != '5'); // false // console.log(5 !== '5'); // true

// console.log(5 + 5); //10 // console.log('5' + '5'); //55 -> concatenation -> appending;

// String

// Conditonal or Ternary OPERATORS

// condition ? statement1 : statement2

// 5 > 20 ? console.log('5 is greater') : console.log('5 is not greater');

let value1 = '1000'; console.log(typeof value1); // String let value2 = parseInt(value1);

console.log(typeof value2)

let value3 = 'abc'; let value4 = parseInt(value3)

console.log(value4)

let value5 = 1234.44; let value6 = parseInt(value5);

console.log(value5)

console.log(value5.toFixed(3)) // number of digits from decimal point console.log(value5.toPrecision(9)) // number of digits from the start.

// Object / Arrays

// arrays -> [] // object -> {}

// arrays

let fruits = ['apple', 'mango', 'orange', 'watermelon', 'pineapple']; // collection of strings let marks = [80, 90, 95, 92, 78]; // collection of number var myArray = ['Blue', 1200, true, -10]

> console.log(fruits); console.log(marks);

// array index starts with 0 and goes upto (length - 1)

console.log(fruits[3]); //watermelon console.log(marks[0]); // 80

console.log(marks[5]) //undefined console.log(fruits.length)

fruits[3] = 'lemon';

fruits[8] = 'jackfruit'

console.log(fruits)
console.log(fruits[7]); //undefined console.log(fruits.length)

// Object

let userDetails = {

// key: value

name: Jonn', city: 'Bangalore', email: 'john@gmail.com', mobileNumber: '+91 1234567890'

console.log(userDetails['email'])

console.log(userDetails)

console.log(userDetails.mobileNumber)

userDetails['city'] = 'Mumbai'; userDetails.mobileNumber = '+91 0987654321'

console.log(userDetails)

// let key = 'email';
// console.log(userDetails[key]); // userDetails['email']

// console.log(userDetails.key);