// 1. Ways to print in JavaScript

// console.log("Hello World");

// alert("me");

// document.write("this is document write")

// 2. Javascript console API

// console.log("Hello World", 4 + 6, "Another log");

// console.warn("this is warning");

// console.error("This is an error");

// 3. JavaScript Variables

// What are Variables? - Containers to store data values

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var number1 = 34;

var number2 = 56;

// console.log(number1 + number2);

// 4. Data types in JavaScript

// Numbers

var num1 = 455;

var num2 = 56.76;

// String

var str1 = "This is a string";

var str2 = 'This is also a string';

// Objects

var marks = {

ravi: 34,

shubham: 78,

harry: 99.977

}

// console.log(marks);

// Booleans

var a = true;

var b = false;

// console.log(a, b);

// var und = undefined;

var und;

// console.log(und);

var n = null;

// console.log(n);

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At a very high level, there are two types of data types in JavaScript

1. Primitive data types: undefined, null, number, string, boolean, symbol

2. Reference data types: Arrays and Object s

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var arr = [1, 2, "bablu", 4, 5]

// console.log(arr)

// Operators in JavaScript

// Arithmetic Operators

var a = 100;

var b = 10;

// console.log("The value of a + b is ", a+b);

// console.log("The value of a - b is ", a-b);

// console.log("The value of a \* b is ", a\*b);

// console.log("The value of a / b is ", a/b);

// Assignment Operators

var c = b;

// c += 2;

// c -= 2; // c = c - 2;

// c \*= 2;

// c /= 2;

// console.log(c);

// Comparison Operators

var x = 34;

var y = 56;

// console.log(x == y);

// console.log(x >= y);

// console.log(x <= y);

// console.log(x > y);

// console.log(x < y);

// Logical Operators

// Logical and

// console.log(true && true)

// console.log(true && false)

// console.log(false && true)

// console.log(false && false)

// Logical or

// console.log(true || true)

// console.log(true || false)

// console.log(false || true)

// console.log(false || false)

// Logical not

// console.log(!false);

// console.log(!true);

// Function in JavaScript

function avg(a, b) {

c = (a + b) / 2;

return c;

}

// DRY = Do not repeat yourself

c1 = avg(4, 6);

c2 = avg(14, 16);

// console.log(c1, c2);

// Conditionals in JavaScript

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var age = 41;

// Single if statement

if(age > 18){

console.log('You can drink rasna water');

}

// if - else statement

// if(age > 18){

// console.log('You can drink rasna water');

// }

// else{

// console.log('You cannot drink rasna water');

// }

age = 25;

// if-else Ladder

if(age > 32){

console.log("You are not a kid");

}

else if(age >26){

console.log("Bachhe nahi rahe");

}

else if(age >22){

console.log("Yes Bachhe nahi rahe");

}

else if(age >18){

console.log("18 Bachhe nahi rahe");

}

else{

console.log("Bachhe rahe");

}

console.log("End of ladder");

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var arr = [1, 2, 3, 4, 5, 6, 7];

// console.log(arr);

// for(var i=0;i<arr.length;i++){

// if(i==2){

// // break;

// continue;

// }

// console.log(arr[i])

// }

// arr.forEach(function(element){

// console.log(element);

// })

// const ac = 0;

// ac++;

// ac = ac +1;

// let j = 0;

// while(j<arr.length){

// console.log(arr[j]);

// j ++;

// }

// do{

// console.log(arr[j]);

// j++;

// } while (j < arr.length);

let myArr = ["Fan", "Camera", 34, null, true];

// Array Methods

// console.log(myArr.length);

// myArr.pop();

// myArr.push("harry")

// myArr.shift()

// const newLen = myArr.unshift("Harry")

// console.log(newLen);

// console.log(myArr);

// String Methods in JavaScript

let myLovelyString = "Harry is a good boy good good Harry";

// console.log(myLovelyString.length)

// console.log(myLovelyString.indexOf("good"))

// console.log(myLovelyString.lastIndexOf("good"))

// console.log(myLovelyString.slice(1,4))

d = myLovelyString.replace("Harry", "Rohan");

// d = d.replace("good", "bad");

// console.log(d, myLovelyString)

let myDate = new Date();

// console.log(myDate.getTime());

// console.log(myDate.getFullYear());

// console.log(myDate.getDay());

// console.log(myDate.getMinutes());

// console.log(myDate.getHours());

// DOM Manipulation

let elem = document.getElementById('click');

// console.log(elem);

let elemClass = document.getElementsByClassName("container")

// console.log(elemClass);

// elemClass[0].style.background = "yellow";

elemClass[0].classList.add("bg-primary")

elemClass[0].classList.add("text-success")

// console.log(elem.innerHTML);

// console.log(elem.innerText);

// console.log(elemClass[0].innerHTML);

// console.log(elemClass[0].innerText);

tn = document.getElementsByTagName('div')

// console.log(tn)

createdElement = document.createElement('p');

createdElement.innerText = "This is a created para";

tn[0].appendChild(createdElement);

createdElement2 = document.createElement('b');

createdElement2.innerText = "This is a created bold";

tn[0].replaceChild(createdElement2, createdElement);

// removeChild(element); ---> removes an element

// Selecting using Query

// sel = document.querySelector('.container')

// console.log(sel)

// sel = document.querySelectorAll('.container')

// console.log(sel)

// function clicked(){

// console.log('The button was clicked')

// }

// window.onload = function(){

// console.log('The document was loaded')

// }

// Events in JavaScript

// firstContainer.addEventListener('click', function(){

// document.querySelectorAll('.container')[1].innerHTML = "<b> We have clicked</b>"

// console.log("Clicked on Container")

// })

// firstContainer.addEventListener('mouseover', function(){

// console.log("Mouse on Container")

// })

// firstContainer.addEventListener('mouseout', function(){

// console.log("Mouse out of Container");

// })

// let prevHTML = document.querySelectorAll('.container')[1].innerHTML;

// firstContainer.addEventListener('mouseup', function(){

// document.querySelectorAll('.container')[1].innerHTML = prevHTML;

// console.log("Mouse up when clicked on Container");

// })

// firstContainer.addEventListener('mousedown', function(){

// document.querySelectorAll('.container')[1].innerHTML = "<b> We have clicked</b>"

// console.log("Mouse down when clicked on Container");

// })

// Arrow Functions

// function summ(a, b){

// return a+b;

// }

summ = (a,b)=>{

return a+b;

}

logKaro = ()=>{

document.querySelectorAll('.container')[1].innerHTML = "<b> Set interval fired</b>"

console.log("I am your log")

}

// SetTimeout and setinterval

// clr = setTimeout(logKaro, 5000);

// clr = setInterval(logKaro, 2000);

// use clearInterval(clr)/clearTimeout(clr) to cancel setInterval/setTimeout

// JavaScript localStorage

// localStorage.setItem('name', 'harry')

// localStorage

// localStorage.getItem('name')

// localStorage.removeItem('name')

// localStorage.clear();

// Json

// obj = {name: "harry", length: 1, a: {this: 'tha"t'}}

// jso = JSON.stringify(obj);

// console.log(typeof jso)

// console.log(jso)

// parsed = JSON.parse(`{"name":"harry","length":1,"a":{"this":"that"}}`)

// console.log(parsed);

// Template literals - Backticks

a = 34;

console.log(`this is my ${a}`)