<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>JavaScript Tutorial</title>

<style>

\*{

margin: 0;

padding: 0;

}

.container{

border: 2px solid red;

margin: 3px 0;

background: cyan;

padding: 9px;

}

.bg-primary{

background-color: blueviolet;

}

.text-success{

color: white;

}

</style>

</head>

<body>

<h1>Welcome to this JavaScript Tutorial</h1>

<div id="firstContainer" class="container">

<button id="click" onclick="clicked()">Click Me</button>

<p>This is a paragraph which is the best para of this universe</p>

</div>

<div class="container">

<p>This is a paragraph</p>

</div>

<script src="index.js"></script>

</body>

</html>

Code index.js

// 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

/\*

multi

line

commment

\*/

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);

/\*

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 Objects

\*/

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

/\*

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");

\*/

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}`)

#### Code project1.html

#### <!doctype html>

#### <html lang="en">

#### <head>

#### <!-- Required meta tags -->

#### <meta charset="utf-8">

#### <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

#### <!-- Bootstrap CSS -->

#### <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.0/css/bootstrap.min.css"

#### integrity="sha384-9aIt2nRpC12Uk9gS9baDl411NQApFmC26EwAOH8WgZl5MYYxFfc+NcPb1dKGj7Sk" crossorigin="anonymous">

#### <title>Hello, world!</title>

#### <script>

#### let a;

#### let date;

#### let time;

#### const options = { weekday: 'long', year: 'numeric', month: 'long', day: 'numeric' };

#### setInterval(() => {

#### a = new Date();

#### date = a.toLocaleDateString(undefined, options);

#### time = a.getHours() + ':' + a.getMinutes() + ':' + a.getSeconds();

#### document.getElementById('time').innerHTML = time + "<br>on " + date;

#### }, 1000);

#### </script>

#### </head>

#### <body>

#### <nav class="navbar navbar-expand-lg navbar-light bg-light">

#### <a class="navbar-brand" href="#">Navbar</a>

#### <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarSupportedContent"

#### aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation">

#### <span class="navbar-toggler-icon"></span>

#### </button>

#### <div class="collapse navbar-collapse" id="navbarSupportedContent">

#### <ul class="navbar-nav mr-auto">

#### <li class="nav-item active">

#### <a class="nav-link" href="#">Home <span class="sr-only">(current)</span></a>

#### </li>

#### <li class="nav-item">

#### <a class="nav-link" href="#">Link</a>

#### </li>

#### <li class="nav-item dropdown">

#### <a class="nav-link dropdown-toggle" href="#" id="navbarDropdown" role="button"

#### data-toggle="dropdown" aria-haspopup="true" aria-expanded="false">

#### Dropdown

#### </a>

#### <div class="dropdown-menu" aria-labelledby="navbarDropdown">

#### <a class="dropdown-item" href="#">Action</a>

#### <a class="dropdown-item" href="#">Another action</a>

#### <div class="dropdown-divider"></div>

#### <a class="dropdown-item" href="#">Something else here</a>

#### </div>

#### </li>

#### <li class="nav-item">

#### <a class="nav-link disabled" href="#" tabindex="-1" aria-disabled="true">Disabled</a>

#### </li>

#### </ul>

#### <form class="form-inline my-2 my-lg-0">

#### <input class="form-control mr-sm-2" type="search" placeholder="Search" aria-label="Search">

#### <button class="btn btn-outline-success my-2 my-sm-0" type="submit">Search</button>

#### </form>

#### </div>

#### </nav>

#### <div class="container my-4">

#### <div class="jumbotron">

#### <h1 class="display-4">Current time Is: <span id="time"></span></h1>

#### <p class="lead">We have got you covered. This is a simple hero unit, a simple jumbotron-style component for

#### calling extra attention to featured content or information.</p>

#### <hr class="my-4">

#### <p>We are here to show you the time for different countries</p>

#### <a class="btn btn-primary btn-lg" href="#" role="button">Browse Times</a>

#### </div>

#### </div>

#### <!-- Optional JavaScript -->

#### <!-- jQuery first, then Popper.js, then Bootstrap JS -->

#### <script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"

#### integrity="sha384-DfXdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj"

#### crossorigin="anonymous"></script>

#### <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.0/dist/umd/popper.min.js"

#### integrity="sha384-Q6E9RHvbIyZFJoft+2mJbHaEWldlvI9IOYy5n3zV9zzTtmI3UksdQRVvoxMfooAo"

#### crossorigin="anonymous"></script>

#### <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.0/js/bootstrap.min.js"

#### integrity="sha384-OgVRvuATP1z7JjHLkuOU7Xw704+h835Lr+6QL9UvYjZE3Ipu6Tp75j7Bh/kR0JKI"

#### crossorigin="anonymous"></script>

#### </body>

#### </html>

#### Code project1.html-2nd

#### <!doctype html>

#### <html lang="en">

#### <head>

#### <!-- Required meta tags -->

#### <meta charset="utf-8">

#### <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

#### <!-- Bootstrap CSS -->

#### <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.0/css/bootstrap.min.css"

#### integrity="sha384-9aIt2nRpC12Uk9gS9baDl411NQApFmC26EwAOH8WgZl5MYYxFfc+NcPb1dKGj7Sk" crossorigin="anonymous">

#### <title>TODOs List</title>

#### </head>

#### <body>

#### <nav class="navbar navbar-expand-lg navbar-dark bg-dark">

#### <a class="navbar-brand" href="#">TODOs List</a>

#### <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarSupportedContent"

#### aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation">

#### <span class="navbar-toggler-icon"></span>

#### </button>

#### <div class="collapse navbar-collapse" id="navbarSupportedContent">

#### <ul class="navbar-nav mr-auto">

#### <li class="nav-item active">

#### <a class="nav-link" href="#">Home <span class="sr-only">(current)</span></a>

#### </li>

#### <li class="nav-item">

#### <a class="nav-link" href="#">About</a>

#### </li>

#### <li class="nav-item dropdown">

#### <a class="nav-link dropdown-toggle" href="#" id="navbarDropdown" role="button"

#### data-toggle="dropdown" aria-haspopup="true" aria-expanded="false">

#### Items

#### </a>

#### <div class="dropdown-menu" aria-labelledby="navbarDropdown">

#### <a class="dropdown-item" href="#">Action</a>

#### <a class="dropdown-item" href="#">Another action</a>

#### <div class="dropdown-divider"></div>

#### <a class="dropdown-item" href="#">Something else here</a>

#### </div>

#### </li>

#### <li class="nav-item">

#### <a class="nav-link" href="#" tabindex="-1" aria-disabled="true">Contact</a>

#### </li>

#### </ul>

#### <form class="form-inline my-2 my-lg-0">

#### <input class="form-control mr-sm-2" type="search" placeholder="Search" aria-label="Search">

#### <button class="btn btn-outline-success my-2 my-sm-0" type="submit">Search</button>

#### </form>

#### </div>

#### </nav>

#### <div class="container my-4">

#### <h2 class="text-center">TODOs List</h2>

#### 

#### <div class="form-group">

#### <label for="title">Title</label>

#### <input type="text" class="form-control" id="title" aria-describedby="emailHelp">

#### <small id="emailHelp" class="form-text text-muted">Add an item to the list</small>

#### </div>

#### <div class="form-group">

#### <label for="description">Description</label>

#### <textarea class="form-control" id="description" rows="3"></textarea>

#### </div>

#### 

#### <button id="add" class="btn btn-primary">Add to list</button>

#### <button id="clear" class="btn btn-primary" onclick="clearStorage()">Clear list</button>

#### 

#### <div id="items" class="my-4">

#### <h2>Your Items</h2>

#### <table class="table">

#### <thead>

#### <tr>

#### <th scope="col">SNo</th>

#### <th scope="col">Item Title</th>

#### <th scope="col">Item Description</th>

#### <th scope="col">Actions</th>

#### </tr>

#### </thead>

#### <tbody id="tableBody">

#### <tr>

#### <th scope="row">1</th>

#### <td>Get some Coffee</td>

#### <td>You need coffee as you are a coder</td>

#### <td><button class="btn btn-sm btn-primary">Delete</button></td>

#### </tr>

#### 

#### </tbody>

#### </table>

#### </div>

#### </div>

#### <!-- Optional JavaScript -->

#### <!-- jQuery first, then Popper.js, then Bootstrap JS -->

#### <script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"

#### integrity="sha384-DfXdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj"

#### crossorigin="anonymous"></script>

#### <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.0/dist/umd/popper.min.js"

#### integrity="sha384-Q6E9RHvbIyZFJoft+2mJbHaEWldlvI9IOYy5n3zV9zzTtmI3UksdQRVvoxMfooAo"

#### crossorigin="anonymous"></script>

#### <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.0/js/bootstrap.min.js"

#### integrity="sha384-OgVRvuATP1z7JjHLkuOU7Xw704+h835Lr+6QL9UvYjZE3Ipu6Tp75j7Bh/kR0JKI"

#### crossorigin="anonymous"></script>

#### <script>

#### function getAndUpdate(){

#### console.log("Updating List...");

#### tit = document.getElementById('title').value;

#### desc = document.getElementById('description').value;

#### if (localStorage.getItem('itemsJson')==null){

#### itemJsonArray = [];

#### itemJsonArray.push([tit, desc]);

#### localStorage.setItem('itemsJson', JSON.stringify(itemJsonArray))

#### }

#### else{

#### itemJsonArrayStr = localStorage.getItem('itemsJson')

#### itemJsonArray = JSON.parse(itemJsonArrayStr);

#### itemJsonArray.push([tit, desc]);

#### localStorage.setItem('itemsJson', JSON.stringify(itemJsonArray))

#### }

#### update();

#### }

#### function update(){

#### if (localStorage.getItem('itemsJson')==null){

#### itemJsonArray = [];

#### localStorage.setItem('itemsJson', JSON.stringify(itemJsonArray))

#### }

#### else{

#### itemJsonArrayStr = localStorage.getItem('itemsJson')

#### itemJsonArray = JSON.parse(itemJsonArrayStr);

#### }

#### // Populate the table

#### let tableBody = document.getElementById("tableBody");

#### let str = "";

#### itemJsonArray.forEach((element, index) => {

#### str += `

#### <tr>

#### <th scope="row">${index + 1}</th>

#### <td>${element[0]}</td>

#### <td>${element[1]}</td>

#### <td><button class="btn btn-sm btn-primary" onclick="deleted(${index})">Delete</button></td>

#### </tr>`;

#### });

#### tableBody.innerHTML = str;

#### }

#### add = document.getElementById("add");

#### add.addEventListener("click", getAndUpdate);

#### update();

#### function deleted(itemIndex){

#### console.log("Delete", itemIndex);

#### itemJsonArrayStr = localStorage.getItem('itemsJson')

#### itemJsonArray = JSON.parse(itemJsonArrayStr);

#### // Delete itemIndex element from the array

#### itemJsonArray.splice(itemIndex, 1);

#### localStorage.setItem('itemsJson', JSON.stringify(itemJsonArray));

#### update();

#### }

#### function clearStorage(){

#### if (confirm("Do you areally want to clear?")){

#### console.log('Clearing the storage')

#### localStorage.clear();

#### update()

#### }

#### }

#### </script>

#### </body>

#### </html>