DOM CRASH COURSE

**// FIRST EXERCISE //**

// EXAMINE THE DOCUMENT OBJECT //

// console.dir(document);

console.log(document.domain);

console.log(document.URL);

console.log(document.title);

// document.title = 123; we can change title of document

console.log(document.doctype);

console.log(document.head);

console.log(document.body);

console.log(document.all);

console.log(document.all[10]);

// document.all[10].textContent = "Hello";

console.log(document.forms);

console.log(document.links);

console.log(document.images);

// GETELEMENTBYID //

// console.log(document.getElementById("header-title"));

// pristupanje elementu sa datim id

let headerTitle = document.getElementById("header-title");

let header = document.getElementById("main-header");

console.log(headerTitle);

// headerTitle.textContent = "Hello";

console.log(headerTitle.textContent); // ne prati stilove

console.log(headerTitle.innerText); // slusa stilove

headerTitle.innerHTML = "<h3>Hello</h3>";

// PROMENA STILOVA //

header.style.borderBottom = "solid 3px #000";

// GETELEMENTSBYCLASSNAME //

// Uzimanje svih elemenata sa datom klasom

let items = document.getElementsByClassName("list-group-item");

console.log(items);

console.log(items[1]); // pristupanje drugom takvom elementu

// Promena sadrzaja:

items[1].textContent = "Hello 2";

items[1].style.fontWeight = "bold";

//Promena stilova:

items[1].style.backgroundColor = "yellow";

// items.style.backgroundColor = "#f4f4f4"; nece da radi. Vec mora preko for petlje:

// for (let i = 0; i < items.length; i++) {

// items[i].style.backgroundColor = "#f4f4f4";

// }

// GETELEMENTSBYTAGNAME //

// Uzimanje svih elemenata sa datim tagom

let li = document.getElementsByTagName("li");

console.log(li);

console.log(li[1]); // pristupanje drugom takvom elementu

//Promena sadrzaja:

li[1].textContent = "Hello 2";

//Promena stilova:

li[1].style.fontWeight = "bold";

li[1].style.backgroundColor = "yellow";

// li.style.backgroundColor = "#f4f4f4"; nece da radi. Vec mora preko for petlje:

// for (let i = 0; i < li.length; i++) {

// primenjuje se na sve li tagove, bez obzira na klasu:

// li[i].style.backgroundColor = "#f4f4f4";

// }

// QUERYSELECTOR //

// po defaultu uzima samo prvi takav selector, querySelectorAll nam daje sve.

// Uzima prvi element sa datim id

let header2 = document.querySelector("#main-header");

header2.style.borderBottom = "solid 4px #ccc";

// Uzima prvi element sa datim HTML tagom

let input = document.querySelector("input");

input.value = "Hello World";

// Uzima dati element sa odredjenim atributom

let submit = document.querySelector("input[type='submit']");

submit.value = "SEND";

let items2 = document.querySelector(".list-group-item");

items2.style.color = "red";

let secondItem = document.querySelector(".list-group-item:nth-child(2)");

secondItem.style.color = "blue";

// let lastItem = document.querySelector(".list-group-item:last-child");

// lastItem.style.color = "blue";

// QUERYSELECTORALL //

let titles = document.querySelectorAll(".title");

console.log(titles);

titles[0].textContent = "Hello";

let odd = document.querySelectorAll("li:nth-child(odd)");

let even = document.querySelectorAll("li:nth-child(even)");

for (let i = 0; i < odd.length; i++) {

odd[i].style.backgroundColor = "#f4f4f4";

even[i].style.backgroundColor = "#ccc";

}

**// SECOND EXERCISE //**

// TRAVERSING THE DOM //

let itemList = document.querySelector("#items");

// parentNode

// console.log(itemList.parentNode);

// itemList.parentNode.style.backgroundColor = "#f4f4f4";

// console.log(itemList.parentNode.parentNode);

// parentElement (isto radi)

console.log(itemList.parentElement);

itemList.parentElement.style.backgroundColor = "#f4f4f4";

console.log(itemList.parentElement.parentElement);

// childNodes - Vraca nam niz, gde se pojavi text, to predstavlja novi red

// console.log(itemList.childNodes);

// children - bolja varijanta

// console.log(itemList.children);

// console.log(itemList.children[1]);

// itemList.children[1].style.backgroundColor = "yellow";

// firstChild - slicno kao kod childNodes, gde imamo text na svaki novi red

console.log(itemList.firstChild);

// firstElementChild - bolja varijanta

console.log(itemList.firstElementChild);

itemList.firstElementChild.textContent = "Hello 1";

// lastChild - slicno kao kod childNodes, gde imamo text na svaki novi red

console.log(itemList.lastChild);

// lastElementChild - bolja varijanta

console.log(itemList.lastElementChild);

itemList.lastElementChild.textContent = "Hello 4";

// nextSibling

console.log(itemList.nextSibling);

// nextElementSibling

console.log(itemList.nextElementSibling);

// previousSibling

console.log(itemList.previousSibling);

// previousElementSibling

console.log(itemList.previousElementSibling);

itemList.previousElementSibling.style.color = "green";

// createElement

// Create a div

let newDiv = document.createElement("div");

// Add class

newDiv.className = "hello";

// Add id

newDiv.id = "hello 1";

// Add new attr

newDiv.setAttribute("title", "Hello Div");

// Create text node

let newDivText = document.createTextNode("Hello World");

// add text to div

newDiv.appendChild(newDivText);

let container = document.querySelector("header .container");

let h1 = document.querySelector("header h1");

console.log(newDiv);

container.insertBefore(newDiv, h1);

**// THIRD EXERCISE //**

// EVENTS //

// let button = document.getElementById("button").addEventListener("click", buttonClick);

function buttonClick(e) {

// console.log("Button clicked");

// document.getElementById("header-title").textContent = "Changed";

// document.querySelector("#main").style.backgroundColor = "#f4f4f4";

// console.log(e);

// console.log(e.target);

// console.log(e.target.id);

// console.log(e.target.className);

// console.log(e.target.classList);

// var output = document.getElementById("output");

// output.innerHTML = "<h3>" + e.target.id + "</h3>";

// console.log(e.type);

// console.log(e.clientX);

// console.log(e.clientY);

// console.log(e.offsetX);

// console.log(e.offsetY);

// console.log(e.altKey);

// console.log(e.ctrlKey);

// console.log(e.shiftKey);

}

let button = document.getElementById("button");

let box = document.getElementById("box");

// button.addEventListener("click", runEvent);

// button.addEventListener("dblclick", runEvent);

// button.addEventListener("mousedown", runEvent);

// button.addEventListener("mouseup", runEvent);

// box.addEventListener("mouseenter", runEvent);

// box.addEventListener("mouseleave", runEvent);

// box.addEventListener("mouseover", runEvent);

// box.addEventListener("mouseout", runEvent);

// box.addEventListener("mousemove", runEvent);

let itemInput = document.querySelector("input[type='text']")

let form = document.querySelector("form")

let select = document.querySelector("select")

// itemInput.addEventListener('keydown', runEvent)

// itemInput.addEventListener('keyup', runEvent)

// itemInput.addEventListener('keypress', runEvent)

// itemInput.addEventListener('focus', runEvent)

// itemInput.addEventListener('blur', runEvent)

// itemInput.addEventListener('cut', runEvent)

// itemInput.addEventListener('paste', runEvent)

// Bilo kakva radnja sa inputom se hvata

// itemInput.addEventListener('input', runEvent)

// select.addEventListener("change", runEvent)

// form.addEventListener("submit", runEvent)

function runEvent(e) {

e.preventDefault() // for submitting

console.log("EVENT TYPE: " + e.type);

// console.log(e.target.value)

// output.innerHTML =

// "<h3>MouseX: " + e.offsetX + "</h3><h3>MouseY: " + e.offsetY + "</h3>";

// box.style.backgroundColor = `rgb(${e.offsetX},${e.offsetY},40)`;

// console.log(e.target.value)

// document.getElementById("output").innerHTML =

// `<h3>${e.target.value}</h3>`

}

**// FINAL PROJECT //**

let form = document.getElementById("addForm");

let itemList = document.getElementById("items");

let filter = document.getElementById("filter");

// Form submit event

form.addEventListener("submit", addItem);

// Delete event

itemList.addEventListener("click", removeItem);

// Filter event

filter.addEventListener("keyup", filterItems);

// Add item

function addItem(e) {

e.preventDefault();

// Get input value

let newItem = document.getElementById("item").value;

// Create new li element

let li = document.createElement("li");

// Add class

li.className = "list-group-item";

// Add text node with input value

li.appendChild(document.createTextNode(newItem));

// Create del button element

let deleteBtn = document.createElement("button");

// Add classes to del button

deleteBtn.className = "btn btn-danger btn-sm float-right delete";

// Append text node

deleteBtn.appendChild(document.createTextNode("X"));

// Append button to li

li.appendChild(deleteBtn);

// Append li to list

itemList.appendChild(li);

}

// Remove Item

function removeItem(e) {

if (e.target.classList.contains("delete")) {

if (confirm("Are You Sure?")) {

let li = e.target.parentElement;

itemList.removeChild(li);

}

}

}

// Filter Items

function filterItems(e) {

// convert text to lowercase

let text = e.target.value.toLowerCase();

// Get lis

let items = itemList.getElementsByTagName("li");

// Convert to an array

Array.from(items).forEach(function (item) {

let itemName = item.firstChild.textContent;

if (itemName.toLowerCase().indexOf(text) != -1) {

item.style.display = "block";

} else {

item.style.display = "none";

}

});

}