## Task 3 frontend

## calculator:

1.

## html

CSS

```
body {
   background-color: ■#f5f5f5;
}
.card {
   background-color: ■#ffffff;
}
```

```
// DOM Elements Creation
const container = document.createElement("div");
container.className = "container p-3";
const title = document.createElement("h2");
title.className = "text-center";
title.innerText = "DOM Calculator";
const calcBox = document.createElement("div");
calcBox.className = "card p-4 shadow rounded mx-auto";
calcBox.style.maxWidth = "400px";
const input = document.createElement("input");
input.setAttribute("type", "text");
input.setAttribute("readonly", "readonly");
input.className = "form-control mb-3 text-end fs-4";
input.id = "calc-display";
const btnValues = [
 "7", "8", "9", "/",
 "4", "5", "6", "*"
  "1", "2", "3", "-",
      "%", "M+", "M-",
  "MC"
const btnGrid = document.createElement("div");
btnGrid.className = "row row-cols-4 g-2";
btnValues.forEach(value => {
 const col = document.createElement("div");
 col.className = "col";
 const btn = document.createElement("button");
 btn.className = "btn btn-outline-dark w-100";
```

```
btn.addEventListener("click", () => handleClick(value));
 col.appendChild(btn);
 btnGrid.appendChild(col);
calcBox.appendChild(input);
calcBox.appendChild(btnGrid);
container.appendChild(title);
container.appendChild(calcBox);
document.body.appendChild(container);
let memory = localStorage.getItem("calcMemory") || "0";
function handleClick(value) {
 let display = document.getElementById("calc-display");
  switch (value) {
   case "=":
     try {
       display.value = eval(display.value);
     } catch {
       display.value = "Error";
     break;
    case "C":
     display.value = "";
     break;
    case "M+":
      localStorage.setItem("calcMemory", eval(display.value));
     break;
   case "M-":
     localStorage.setItem("calcMemory", "0");
      break;
    case "MC":
```

```
function handleClick(value) {
    case "MC":
      display.value = localStorage.getItem("calcMemory") || "0";
      break;
    default:
      display.value += value;
// Keyboard event listener
document.addEventListener("keydown", (event) => {
  const key = event.key;
 const allowed = /[0-9+\-*/\%=.]/;
 if (allowed.test(key)) {
    input.value += key;
  } else if (key === "Enter") {
   try {
      input.value = eval(input.value);
    } catch {
      input.value = "Error";
  } else if (key === "Backspace") {
    input.value = input.value.slice(0, -1);
  } else {
    alert("Only numbers are allowed");
    event.preventDefault();
});
```