Workshop 02: JavaScript***A screenshot of a computer program

Description automatically generated***

***Question\_3.html***

*<!DOCTYPE html>*

*<html>*

*<head>*

*<meta charset="UTF-8" />*

*<meta name="viewport" content="width=device-width, initial-scale=1" />*

*<title>Digital Clock</title>*

*<link rel="stylesheet" href="Question\_3.css" />*

*</head>*

*<body>*

*<h1>My Clock</h1>*

*<div id="clock">*

*<div id="time"></div>*

*<div id="date"></div>*

*</div>*

*<script src="Question\_3.js"></script>*

*</body>*

*</html>*

***Question\_3.js***

*function displayClock() {*

*const now = new Date();*

*// Format time with AM/PM*

*let hours = now.getHours();*

*const minutes = String(now.getMinutes()).padStart(2, "0");*

*const seconds = String(now.getSeconds()).padStart(2, "0");*

*const ampm = hours >= 12 ? "PM" : "AM";*

*hours = hours % 12 || 12; // Convert to 12-hour format and handle midnight (0 hour)*

*const timeString = `${hours}:${minutes}:${seconds} ${ampm}`;*

*const dateString = now.toDateString();*

*// Update elements with IDs 'time' and 'date'*

*document.getElementById("time").textContent = timeString;*

*document.getElementById("date").textContent = dateString;*

*}*

*// Call displayClock every second*

*setInterval(displayClock, 1000);*

*displayClock();*

***Output:***

**A screenshot of a computer

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***Github Deployment:*** [***https://nambobby.github.io/Web-Lab-UWE-IU/Lab\_2/Workshop\_02/Question\_3/Question\_3.html***](https://nambobby.github.io/Web-Lab-UWE-IU/Lab_2/Lab_Practice/Question_1/Question_1.html)

A screenshot of a test

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***Question\_4.html***

*<!DOCTYPE html>*

*<html lang="en">*

*<head>*

*<meta charset="UTF-8" />*

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

*<title>Counter Textarea</title>*

*<link rel="stylesheet" href="Question\_4.css" />*

*</head>*

*<body>*

*<h1>Write your Message</h1>*

*<div id="container">*

*<textarea*

*id="message"*

*placeholder="Start typing ..."*

*maxlength="250"></textarea>*

*<div id="charCount">0 / 250</div>*

*</div>*

*<script src="Question\_4.js"></script>*

*</body>*

*</html>*

***Question\_4.js***

*const textarea = document.getElementById("message");*

*const container = document.getElementById("container");*

*const charCount = document.getElementById("charCount");*

*const maxChars = 250;*

*function autoResize() {*

*textarea.style.height = 'auto'; // Reset height*

*textarea.style.height = `${textarea.scrollHeight}px`;*

*}*

*textarea.addEventListener("input", () => {*

*const currentChars = textarea.value.length;*

*charCount.textContent = `${currentChars} / ${maxChars}`;*

*if (currentChars >= maxChars) {*

*container.classList.add("limit");*

*textarea.classList.add("limit");*

*charCount.classList.add("limit");*

*textarea.value = textarea.value.substring(0, maxChars); // Prevent additional input*

*} else {*

*container.classList.remove("limit");*

*textarea.classList.remove("limit");*

*charCount.classList.remove("limit");*

*}*

*autoResize();*

*});*

**Output:**

**A screenshot of a computer

Description automatically generated**

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***Github Deployment:*** [***https://nambobby.github.io/Web-Lab-UWE-IU/Lab\_2/Workshop\_02/Question\_4/Question\_4.html***](https://nambobby.github.io/Web-Lab-UWE-IU/Lab_2/Workshop_02/Question_4/Question_4.html)

A screenshot of a task tracker

Description automatically generated

***Question\_5.html***

*<!DOCTYPE html>*

*<html lang="en">*

*<head>*

*<meta charset="UTF-8" />*

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

*<title>Task Tracker</title>*

*<link rel="stylesheet" href="Question\_5.css" />*

*<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.0.0-beta3/css/all.min.css">*

*</head>*

*<body>*

*<div class="container">*

*<h2>Task Tracker</h2>*

*<div class="input-container">*

*<input*

*type="text"*

*id="taskInput"*

*placeholder="Start writing and press enter to create task" />*

*<span class="enter-icon-container"><i class="fas fa-arrow-turn-down icon"></i></span>*

*</div>*

*<ul id="taskList"></ul>*

*</div>*

*<script src="Question\_5.js"></script>*

*</body>*

*</html>*

***Question\_5.js***

*const taskInput = document.getElementById('taskInput');*

*const taskList = document.getElementById('taskList');*

*const enterIcon = document.querySelector('.enter-icon-container');*

*// Function to add a new task*

*function addTask(taskText) {*

*const taskItem = document.createElement('li');*

*taskItem.classList.add('task-item');*

*const checkbox = document.createElement('input');*

*checkbox.type = 'checkbox';*

*checkbox.style.display = 'none';*

*checkbox.addEventListener('change', () => toggleTaskComplete(taskItem));*

*const customCheckbox = document.createElement('span');*

*customCheckbox.classList.add('custom-checkbox');*

*customCheckbox.addEventListener('click', () => {*

*checkbox.checked = !checkbox.checked;*

*checkbox.dispatchEvent(new Event('change'));*

*});*

*const taskContent = document.createElement('span');*

*taskContent.classList.add('content');*

*taskContent.textContent = taskText;*

*const deleteButton = document.createElement('button');*

*deleteButton.classList.add('delete-btn');*

*deleteButton.innerHTML = '<i class="fas fa-trash"></i>'; // Dustbin icon*

*deleteButton.addEventListener('click', () => deleteTask(taskItem));*

*taskItem.appendChild(checkbox);*

*taskItem.appendChild(customCheckbox);*

*taskItem.appendChild(taskContent);*

*taskItem.appendChild(deleteButton);*

*taskList.appendChild(taskItem);*

*}*

*// Function to handle task completion*

*function toggleTaskComplete(taskItem) {*

*taskItem.classList.toggle('completed');*

*if (taskItem.classList.contains('completed')) {*

*taskList.appendChild(taskItem);*

*} else {*

*taskList.insertBefore(taskItem, taskList.firstChild);*

*}*

*}*

*// Function to delete a task*

*function deleteTask(taskItem) {*

*taskList.removeChild(taskItem);*

*}*

*taskInput.addEventListener('keypress', (e) => {*

*if (e.key === 'Enter' && taskInput.value.trim() !== '') {*

*addTask(taskInput.value.trim());*

*taskInput.value = '';*

*}*

*});*

*enterIcon.addEventListener('click', () => {*

*if (taskInput.value.trim() !== '') {*

*addTask(taskInput.value.trim());*

*taskInput.value = '';*

*}*

*});*

**Output:**

**A screenshot of a computer

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***Github Deployment:*** [***https://nambobby.github.io/Web-Lab-UWE-IU/Lab\_2/Workshop\_02/Question\_5/Question\_5.html***](https://nambobby.github.io/Web-Lab-UWE-IU/Lab_2/Workshop_02/Question_5/Question_5.html)