

## Lab 9: Todo list

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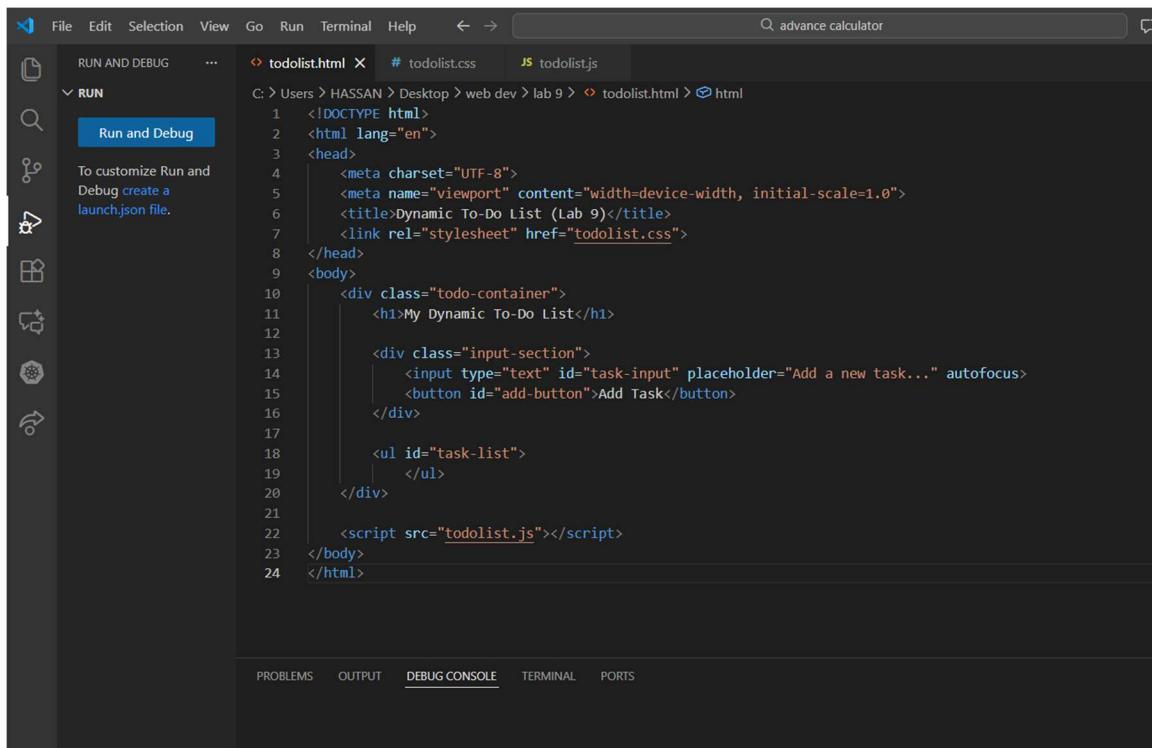
Roll No: 340

Course: Web Development

Instructor: Sir Yousaf

Date: 10/15/25

### Code:



```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Dynamic To-Do List (Lab 9)</title>
    <link rel="stylesheet" href="todolist.css">
</head>
<body>
    <div class="todo-container">
        <h1>My Dynamic To-Do List</h1>

        <div class="input-section">
            <input type="text" id="task-input" placeholder="Add a new task..." autofocus>
            <button id="add-button">Add Task</button>
        </div>

        <ul id="task-list">
        </ul>
    </div>
    <script src="todolist.js"></script>
</body>
</html>
```

CSS code :

The screenshot shows the Visual Studio Code interface with the 'Run and Debug' sidebar open. The sidebar has a 'RUN' section with a 'Run and Debug' button highlighted in blue. Below it is a note: 'To customize Run and Debug create a launch.json file.' The main editor area displays CSS code for a 'todolist.css' file, specifically targeting the '#task-list li input[type="text"]' selector. The code defines styles for various button classes like '.actions button', '.delete-btn', '.edit-btn', and their hover states. The bottom of the editor shows tabs for PROBLEMS, OUTPUT, DEBUG CONSOLE (which is selected), TERMINAL, and PORTS.

```
C: > Users > HASSAN > Desktop > web dev > lab 9 > # todolist.css > #task-list li input[type="text"]
94 .actions button {
95   border: none;
96   cursor: pointer;
97   font-size: 14px;
98   padding: 5px;
99   transition: color 0.3s;
100 }
101
102 .delete-btn {
103   color: #f44336; /* Red for Delete */
104 }
105
106 .delete-btn:hover {
107   color: #d32f2f;
108 }
109
110 .edit-btn {
111   color: #ff9800; /* Orange for Edit */
112 }
113
114 .edit-btn:hover {
115   color: #f57c00;
116 }
117
118 /* Inline Editing Style */
119 #task-list li input[type="text"] {
120   flex-grow: 1;
121   margin-right: 10px;
122 }
```

Js code:

The screenshot shows the Visual Studio Code interface with the 'RUN' sidebar open on the left. The 'Run and Debug' section is active, displaying options like 'Run and Debug', 'JavaScript Debug', and 'Terminal'. A note says: 'To customize Run and Debug create a launch.json file.' Below it, another note says: 'You can use the JavaScript Debug Terminal to debug Node.js processes run on the command line.' At the bottom of the sidebar, there are 'Debug URL' and 'Breakpoints' sections.

The main editor area shows a JavaScript file named 'todolist.js' with the following code:

```
C: > Users > HASSAN > Desktop > web dev > lab 9 > JS todolist.js > ...
1 // Global array to store the state of our To-Do list
2 let tasks = [];
3
4 // --- Task 2: Persistence (Load tasks from localStorage) ---
5 function loadTasks() {
6     const storedTasks = localStorage.getItem('tasks');
7     if (storedTasks) {
8         tasks = JSON.parse(storedTasks);
9     }
10 }
11
12 function saveTasks() {
13     // Save the current state of the tasks array to localStorage
14     localStorage.setItem('tasks', JSON.stringify(tasks));
15 }
16
17 // --- Task 1: Render Tasks (DOM Manipulation) ---
18 function renderTasks() {
19     const list = document.getElementById('task-list');
20     list.innerHTML = '';
21
22     tasks.forEach(task => {
23         // 1. Create List Item (li)
24         const listItem = document.createElement('li');
25         listItem.dataset.id = task.id; // Store ID for easy access
26
27         // Apply 'completed' class if the task is done
28         if (task.completed) {
```

The bottom of the editor shows tabs for PROBLEMS, OUTPUT, DEBUG CONSOLE (which is selected), TERMINAL, and PORTS.

Calculator :

# My Dynamic To-Do List

Add a new task... Add Task

task 1	<span>Edit</span>	<span>Delete</span>
task 2	<span>Edit</span>	<span>Delete</span>
task 3	<span>Edit</span>	<span>Delete</span>
task 4	<span>Edit</span>	<span>Delete</span>
task 5	<span>Edit</span>	<span>Delete</span>
task 6	<span>Edit</span>	<span>Delete</span>

**CONCLUSION:**

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**RUBRICS:**

Performance	Lab Report
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Description	Total Marks	Marks Obtained	Description	Total Marks	Marks Obtained
Ability to Conduct practical	5		Structure	5	
Data Analysis & Interpretation	5		Efficiency	5	
<b>Total Marks obtained</b>			<b>Total Marks Obtained</b>		

Instructor Signature \_\_\_\_\_