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3rd Year Section B (B1)

Practical 9 (JavaScript)

Task 1:

```
<> practical9.html > ...
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4  |   <meta charset="utf-8" />
5  |   <title>Task 1</title>
6  </head>
7  <body>
8  |   <h2>LocalStorage Example</h2>
9  |   <label>Enter Name:</label>
10 |   <input type="text" id="name"><br><br>
11 |   <button id="saveBtn">Save</button>
12 |   <button id="showBtn">Show</button>
13 |   <button id="clearBtn">Clear</button>
14 |   <p id="result"></p>
15 |
16 |   <script>
17 |       const nameEl = document.getElementById("name");
18 |       const result = document.getElementById("result");
19 |       const saveBtn = document.getElementById("saveBtn");
20 |       const showBtn = document.getElementById("showBtn");
21 |       const clearBtn = document.getElementById("clearBtn");
22 |
23 |       saveBtn.addEventListener("click", () => {
24 |           localStorage.setItem("task1_name", nameEl.value);
25 |           nameEl.value = "";
26 |       });
27 |
28 |       showBtn.addEventListener("click", () => {
29 |           const saved = localStorage.getItem("task1_name");
30 |           result.textContent = saved ? "Stored Name: " + saved : "No data found.";
31 |       });
32 |
33 |       clearBtn.addEventListener("click", () => {
34 |           localStorage.removeItem("task1_name");
35 |           result.textContent = "";
36 |       });
37 |   </script>
38 </body>
39 </html>
40
```

LocalStorage Example

Enter Name:

LocalStorage Example

Enter Name:


Stored Name: Mukund

LocalStorage Example

Enter Name:

No data found.

Task 2:

```
<> practical9.html >  html
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4  <meta charset="UTF-8">
5  <title>Theme & Font Size Switcher</title>
6  <style>
7  body {
8      font-family: Arial;
9      text-align: center;
10     transition: background-color 0.5s, color 0.5s, font-size 0.3s;
11 }
12 .dark { background-color: ☐ #121212; color: ☒ white; }
13 .light { background-color: ☒ #ffffff; color: ☐ black; }
14 button, select {
15     margin: 10px;
16     padding: 10px 20px;
17     border: none;
18     cursor: pointer;
19     border-radius: 5px;
20 }
21 </style>
22 </head>
23 <body>
24 <h1>Theme & Font Size Switcher</h1>
25 <button id="toggleTheme">Toggle Theme</button>
26 <select id="fontSizeSelector">
27     <option value="small">Small</option>
28     <option value="medium">Medium</option>
29     <option value="large">Large</option>
30 </select>
31
32 <script>
33 const body = document.body;
34 const btn = document.getElementById("toggleTheme");
35 const fontSizeSelector = document.getElementById("fontSizeSelector");
36
37 const savedTheme = localStorage.getItem("theme") || "light";
38 const savedFontSize = localStorage.getItem("fontSize") || "medium";
39
40 body.classList.add(savedTheme);
41 body.style.fontSize = savedFontSize === "small" ? "14px" : savedFontSize === "large" ? "22px" : "18px";
42
43 btn.textContent = savedTheme === "dark" ? "Switch to Light Mode" : "Switch to Dark Mode";
44 fontSizeSelector.value = savedFontSize;
45
46 btn.addEventListener("click", () => {
47     const newTheme = body.classList.contains("dark") ? "light" : "dark";
48     body.className = newTheme;
49     localStorage.setItem("theme", newTheme);
50     btn.textContent = newTheme === "dark" ? "Switch to Light Mode" : "Switch to Dark Mode";
51 });
52
53 fontSizeSelector.addEventListener("change", () => {
54     const newSize = fontSizeSelector.value;
55     body.style.fontSize = newSize === "small" ? "14px" : newSize === "large" ? "22px" : "18px";
56     localStorage.setItem("fontSize", newSize);
57 });
58 </script>
59 </body>
60 </html>
61
```

Theme & Font Size Switcher

Switch to Dark Mode

Small



Theme & Font Size Switcher

Switch to Light Mode

Small



Theme & Font Size Switcher

Switch to Light Mode

Large



Task 3:

```
<> practical9.html > ...
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4  |   <meta charset="utf-8" />
5  |   <title>Task 3</title>
6  </head>
7  <body>
8  |   <h2>Contact Form</h2>
9  |   <form id="contactForm">
10 |     <label>Name:</label>
11 |     <input id="name" type="text"><br><br>
12 |     <label>Email:</label>
13 |     <input id="email" type="email"><br><br>
14 |     <label>Message:</label>
15 |     <textarea id="message"></textarea><br><br>
16 |     <button type="submit">Submit</button>
17 |     <button type="button" id="clearBtn">Clear</button>
18 |   </form>
19
20 |   <script>
21 |     const KEY_NAME = "task3_name";
22 |     const KEY_EMAIL = "task3_email";
23 |     const KEY_MESSAGE = "task3_message";
24 |     const nameEl = document.getElementById("name");
25 |     const emailEl = document.getElementById("email");
26 |     const messageEl = document.getElementById("message");
27 |     const form = document.getElementById("contactForm");
28 |     const clearBtn = document.getElementById("clearBtn");
29
30 |     window.addEventListener("DOMContentLoaded", () => {
31 |       const n = sessionStorage.getItem(KEY_NAME);
32 |       const e = sessionStorage.getItem(KEY_EMAIL);
33 |       const m = sessionStorage.getItem(KEY_MESSAGE);
34 |       if (n !== null) nameEl.value = n;
35 |       if (e !== null) emailEl.value = e;
36 |       if (m !== null) messageEl.value = m;
37 |     });
```

```

39     nameEl.addEventListener("input", () => {
40         sessionStorage.setItem(KEY_NAME, nameEl.value);
41     });
42     emailEl.addEventListener("input", () => {
43         sessionStorage.setItem(KEY_EMAIL, emailEl.value);
44     });
45     messageEl.addEventListener("input", () => {
46         sessionStorage.setItem(KEY_MESSAGE, messageEl.value);
47     });
48
49     form.addEventListener("submit", (evt) => {
50         evt.preventDefault();
51         alert("Name: " + nameEl.value + "\nEmail: " + emailEl.value + "\nMessage: " + messageEl.value);
52         sessionStorage.removeItem(KEY_NAME);
53         sessionStorage.removeItem(KEY_EMAIL);
54         sessionStorage.removeItem(KEY_MESSAGE);
55         form.reset();
56     });
57
58     clearBtn.addEventListener("click", () => {
59         sessionStorage.removeItem(KEY_NAME);
60         sessionStorage.removeItem(KEY_EMAIL);
61         sessionStorage.removeItem(KEY_MESSAGE);
62         form.reset();
63     });
64 </script>
65 </body>
66 </html>

```

Contact Form

Name:

Email:

Message:

127.0.0.1:5500 says

Name: Mukund

Email: mukundk0204@gmail.com

Message: Hi

OK