```
// Student bio data object
 2
    const studentBioData = {
 4
 5
        name: "Thapa Technical",
 6
 7
        age: 25,
 8
 9
        gender: "male",
10
        education: "B.Tech",
11
12
13
        address: {
14
15
            city: "Mumbai",
16
17
            state: "Maharashtra",
18
            country: "India"
19
20
21
    };
22
23
    // Output container
24
25
    const output = document.getElementById("output");
26
27
    // Helper: Print styled message to output
28
    const showMessage = (message, type = "info") => {
29
30
31
        const emojis = {
32
            success: "✓",
33
34
            error: "⚠",
35
36
37
            info: "[i]"
```

localhost:52910/4508430a-4829-4077-8ae5-d4591533214a/

```
38
        };
39
        output.textContent = `${emojis[type] || "i"} ${message}`;
40
   };
41
42
    // Add data to localStorage
43
44
    const addData = () => {
45
46
        // Use JSON.stringify() to convert object to string and store in localStorage
47
48
        localStorage.setItem("student", JSON.stringify(studentBioData));
49
50
        // Show success message
51
52
53
        showMessage("Student data has been added successfully!", "success");
54
   };
55
    // Get data from localStorage
56
57
    const getData = () => {
58
59
        // Use getItem() to get data from localStorage
60
61
62
        const data = localStorage.getItem("student");
63
        // If no data found, show error message
64
65
        if (!data) {
66
67
            showMessage("No student data found in local storage.", "error");
68
69
70
            return;
71
72
73
        // Use JSON.parse() to convert string to object
74
75
        const student = JSON.parse(data);
```

```
76
77
         // Show student data
78
79
         const formatted = `Name: ${student.name}\nAge: ${student.age}\nGender: ${student.gender}\nEducation:
     ${student.education}\nAddress: ${student.address.city}, ${student.address.state}, ${student.address.country}`;
80
81
         // Show formatted student data
82
83
         output.textContent = formatted;
84
    };
85
86
     // Delete data from localStorage
87
88
     const deleteData = () => {
89
90
         // Use getItem() to get data from localStorage
91
92
         if (!localStorage.getItem("student")) {
93
94
             showMessage("No data to delete.", "error");
95
96
             return;
97
         }
98
99
         // Use removeItem() to delete data from localStorage
100
101
         localStorage.removeItem("student");
102
103
         showMessage("Student data has been deleted.", "success");
104
    };
105
106
     // Event listeners
                                                                                                                                    0
107
     document.getElementById("add-data").addEventListener("click", addData);
108
109
     document.getElementById("get-data").addEventListener("click", getData);
110
111
112
     document.getElementById("delete-data").addEventListener("click", deleteData);
```