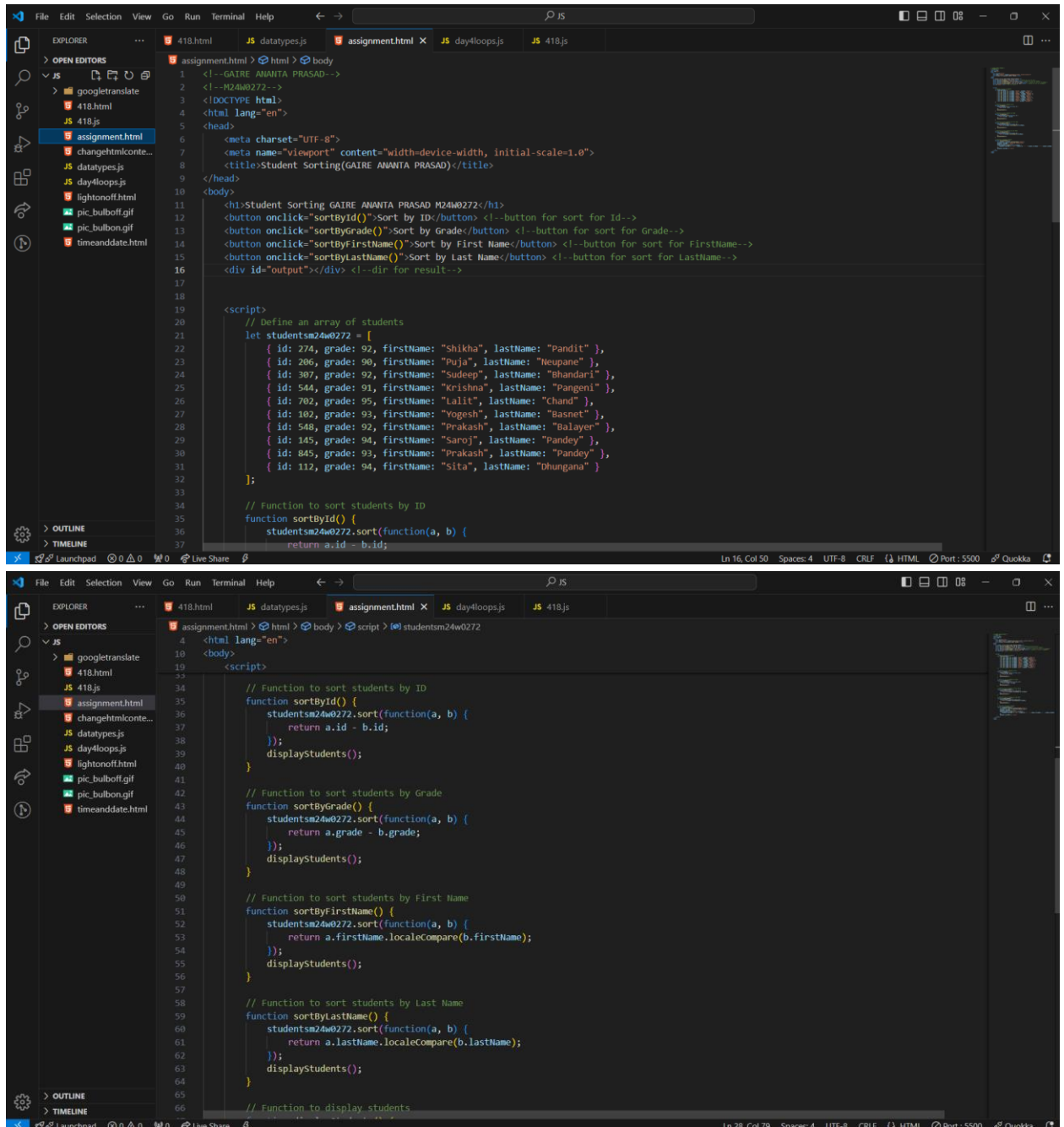


NAME: GAIRE ANANTA PRASAD

STUDENT ID: M24W0272

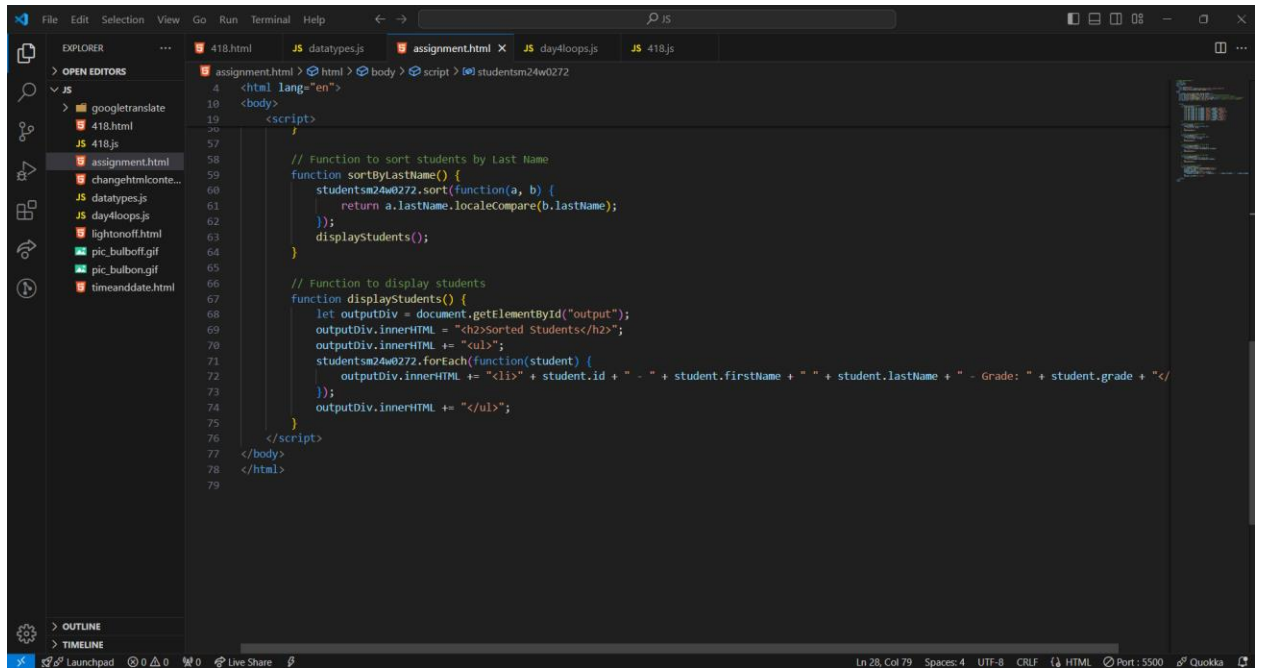
1. Code for assignment one(Sort an Array).



```
1 <!--GAIRE ANANTA PRASAD-->
2 <!--M24W0272-->
3 <!DOCTYPE html>
4 <html lang="en">
5 <head>
6 <meta charset="UTF-8">
7 <meta name="viewport" content="width=device-width, initial-scale=1.0">
8 <title>Student Sorting(GAIRE ANANTA PRASAD)</title>
9 </head>
10 <body>
11 <h1>Student Sorting GAIRE ANANTA PRASAD M24W0272</h1>
12 <button onclick="sortById()">Sort by ID</button> <!--button for sort for Id-->
13 <button onclick="sortByGrade()">Sort by Grade</button> <!--button for sort for Grade-->
14 <button onclick="sortByFirstName()">Sort by First Name</button> <!--button for sort for First Name-->
15 <button onclick="sortByLastName()">Sort by Last Name</button> <!--button for sort for Last Name-->
16 <div id="output"></div> <!--div for result-->
17
18
19
20
21
22 // Define an array of students
23 let studentsm24w0272 = [
24   { id: 274, grade: 92, firstName: "Shikha", lastName: "Pandit" },
25   { id: 286, grade: 90, firstName: "Puja", lastName: "Neupane" },
26   { id: 307, grade: 92, firstName: "Sudeep", lastName: "Bhandari" },
27   { id: 544, grade: 91, firstName: "Krishna", lastName: "Pangeni" },
28   { id: 702, grade: 95, firstName: "Lalit", lastName: "Chand" },
29   { id: 102, grade: 93, firstName: "Vogesh", lastName: "Basnet" },
30   { id: 548, grade: 92, firstName: "Prakash", lastName: "Balayer" },
31   { id: 145, grade: 94, firstName: "Saroj", lastName: "Pandey" },
32   { id: 845, grade: 93, firstName: "Prakash", lastName: "Pandey" },
33   { id: 112, grade: 94, firstName: "Sita", lastName: "Dhungana" }
34 ];
35
36 // Function to sort students by ID
37 function sortById() {
38   studentsm24w0272.sort(function(a, b) {
39     return a.id - b.id;
40   });
41   displayStudents();
42 }
43
44 // Function to sort students by Grade
45 function sortByGrade() {
46   studentsm24w0272.sort(function(a, b) {
47     return a.grade - b.grade;
48   });
49   displayStudents();
50 }
51
52 // Function to sort students by First Name
53 function sortByFirstName() {
54   studentsm24w0272.sort(function(a, b) {
55     return a.firstName.localeCompare(b.firstName);
56   });
57   displayStudents();
58 }
59
60 // Function to sort students by Last Name
61 function sortByLastName() {
62   studentsm24w0272.sort(function(a, b) {
63     return a.lastName.localeCompare(b.lastName);
64   });
65   displayStudents();
66 }
67
68 // Function to display students
```

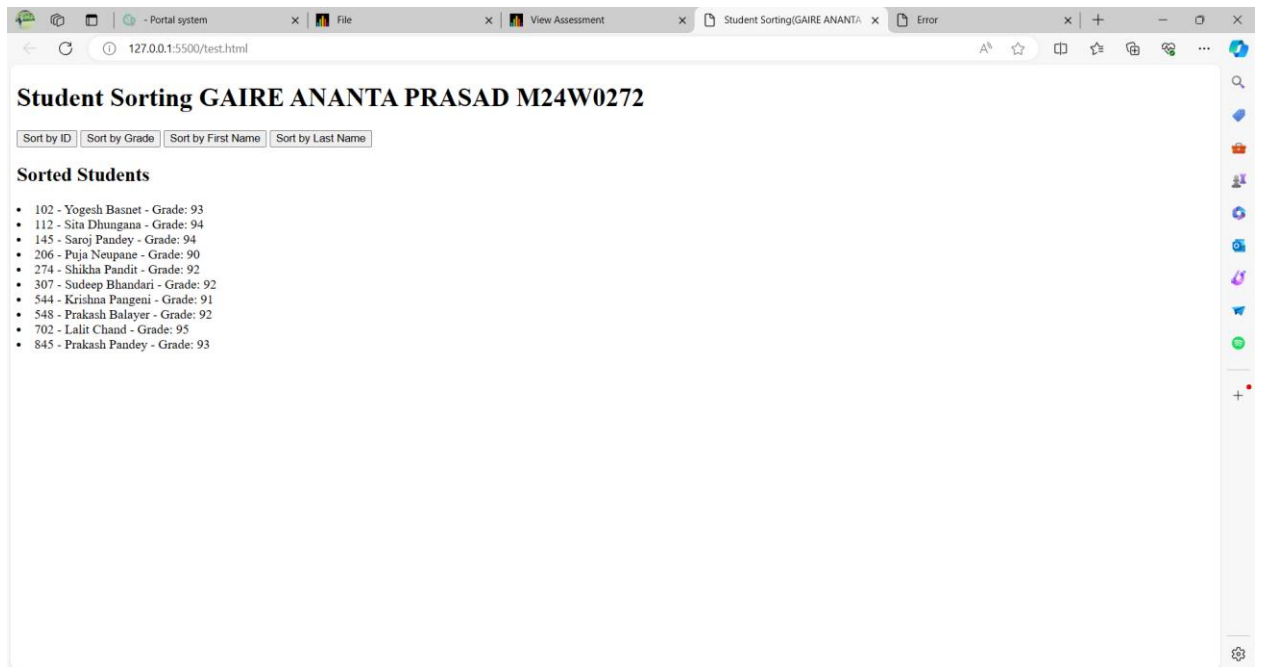
GAIRE ANANTA PRASAD

M24W0272



```
4 <html lang="en">
10 <body>
20 <script>
57
58 // Function to sort students by Last Name
59 function sortByLastName() {
60   studentsm24w0272.sort(function(a, b) {
61     return a.lastName.localeCompare(b.lastName);
62   });
63   displayStudents();
64 }
65
66 // Function to display students
67 function displayStudents() {
68   let outputDiv = document.getElementById("output");
69   outputDiv.innerHTML = "<h2>Sorted Students</h2>";
70   outputDiv.innerHTML += "<ul>";
71   studentsm24w0272.forEach(function(student) {
72     outputDiv.innerHTML += "<li>" + student.id + " - " + student.firstName + " - " + student.lastName + " - Grade: " + student.grade + "</li>";
73   });
74   outputDiv.innerHTML += "</ul>";
75 }
76 </script>
77 </body>
78 </html>
79
```

2. Output (Student Sorting by Id, Grade, First Name and Last Name)



GAIRE ANANTA PRASAD
M24W0272