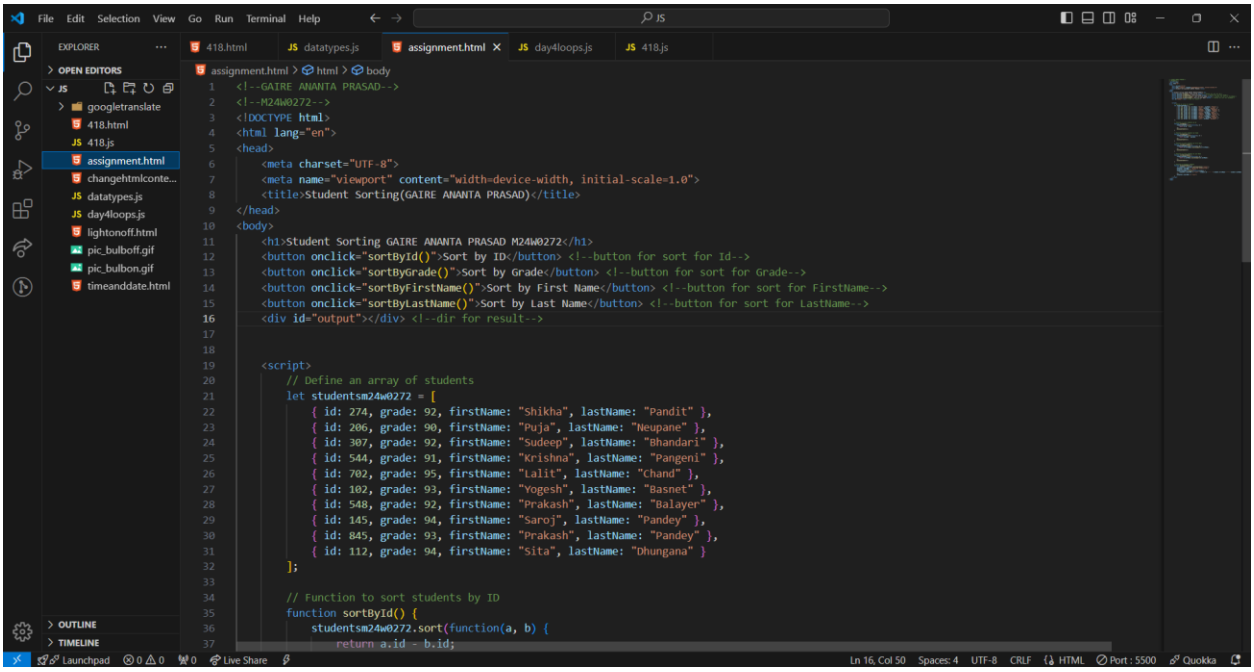
NAME: GAIRE ANANTA PRASAD

STUDENT ID: M24W0272

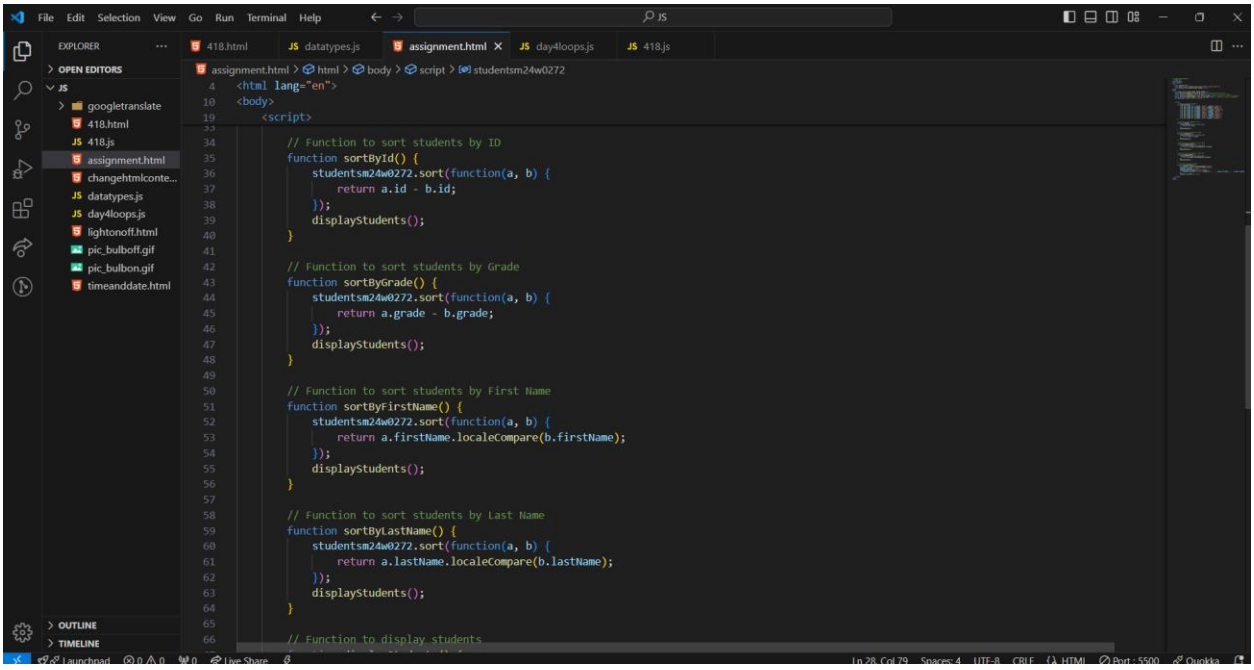
1. Code for assignment one(Sort an Array).



```
<!--GAIRE ANANTA PRASAD-->
<!--M24W0272-->
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Student Sorting(GAIRE ANANTA PRASAD)</title>
</head>
<body>
    <h1>Student Sorting GAIRE ANANTA PRASAD M24W0272</h1>
    <button onclick="sortById()">Sort by ID</button> <!--button for sort for Id-->
    <button onclick="sortByGrade()">Sort by Grade</button> <!--button for sort for Grade-->
    <button onclick="sortByFirstName()">Sort by First Name</button> <!--button for sort for FirstName-->
    <button onclick="sortByLastName()">Sort by Last Name</button> <!--button for sort for LastName-->
    <div id="output"></div> <!--dir for result-->


    <script>
        // Define an array of students
        let studentsm24w0272 = [
            { id: 274, grade: 92, firstName: "Shikha", lastName: "Pandit" },
            { id: 206, grade: 90, firstName: "Puja", lastName: "Neupane" },
            { id: 307, grade: 92, firstName: "Sudeep", lastName: "Bhandari" },
            { id: 544, grade: 91, firstName: "Krishna", lastName: "Pangeni" },
            { id: 702, grade: 95, firstName: "Lalit", lastName: "Chand" },
            { id: 102, grade: 93, firstName: "Yogesh", lastName: "Basnet" },
            { id: 548, grade: 92, firstName: "Prakash", lastName: "Balayer" },
            { id: 145, grade: 94, firstName: "Saroj", lastName: "Pandey" },
            { id: 845, grade: 93, firstName: "Prakash", lastName: "Pandey" },
            { id: 112, grade: 94, firstName: "Sita", lastName: "Dhungana" }
        ];

        // Function to sort students by ID
        function sortById() {
            studentsm24w0272.sort(function(a, b) {
                return a.id - b.id;
```



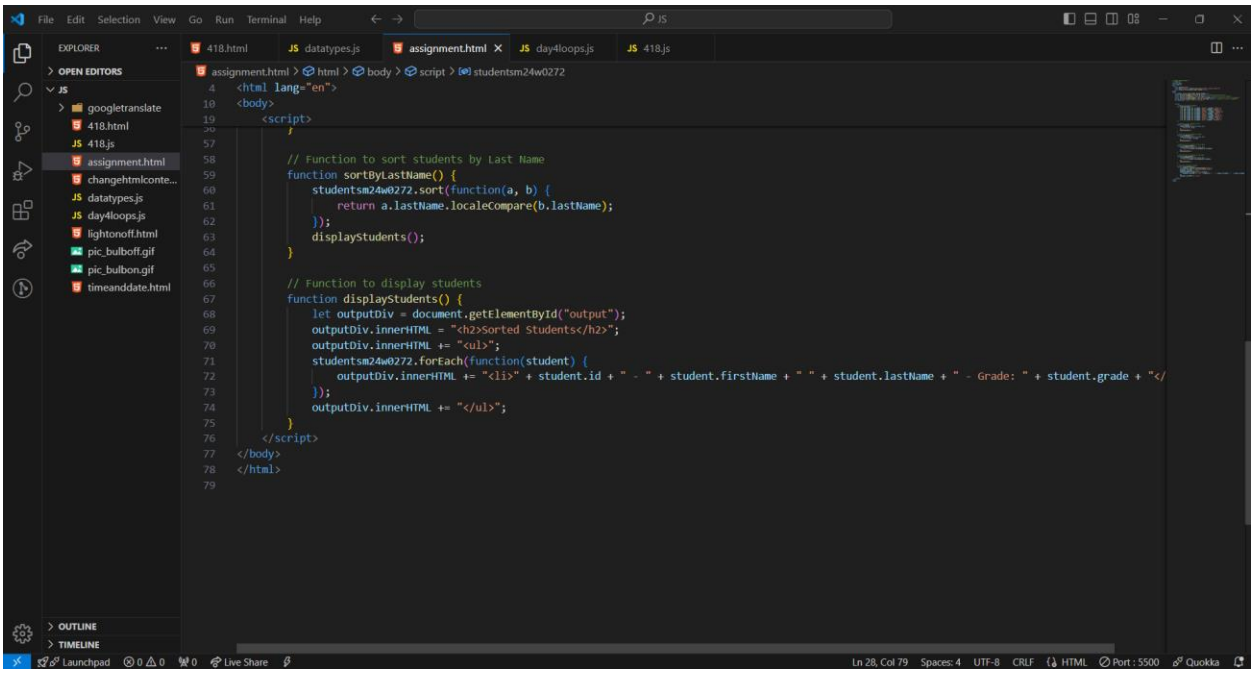
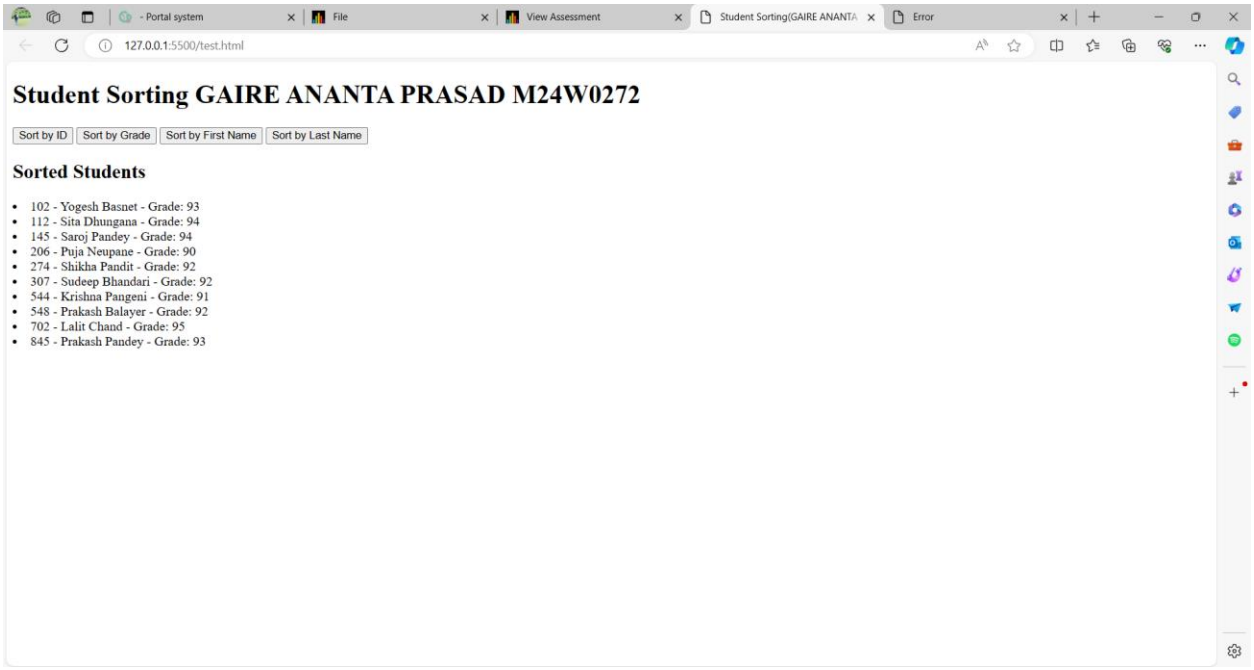
```
        // Function to sort students by ID
        function sortById() {
            studentsm24w0272.sort(function(a, b) {
                return a.id - b.id;
            });
            displayStudents();
        }

        // Function to sort students by Grade
        function sortByGrade() {
            studentsm24w0272.sort(function(a, b) {
                return a.grade - b.grade;
            });
            displayStudents();
        }

        // Function to sort students by First Name
        function sortByFirstName() {
            studentsm24w0272.sort(function(a, b) {
                return a.firstName.localeCompare(b.firstName);
            });
            displayStudents();
        }

        // Function to sort students by Last Name
        function sortByLastName() {
            studentsm24w0272.sort(function(a, b) {
                return a.lastName.localeCompare(b.lastName);
            });
            displayStudents();
        }

        // Function to display students
```



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