

Assignment No: 04

Code: 1

index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width,
    initial-scale=1.0">
  <title>Student Registration Portal</title>
  <link rel="stylesheet" href="style.css">
</head>
<body>

  <div class="container">
    <h1>Student Registration Portal</h1>

    <form id="registrationForm">
      <div class="form-group">
        <label for="studentName">Full
Name :</label>
        <input type="text" id="studentName"
placeholder="e.g., John Doe" required>
      </div>
      <div class="form-group">
```

```
        <label for="studentAge">Age:</label>
        <input type="number" id="studentAge"
placeholder="e.g., 20" required>
    </div>
    <div class="form-group">
        <label
for="studentCourse">Course:</label>
        <input type="text" id="studentCourse"
placeholder="e.g., Computer Science" required>
    </div>
    <div class="form-group">
        <label for="studentEmail">Email:</label>
        <input type="email" id="studentEmail"
placeholder="e.g., john.doe@example.com" required>
    </div>
    <button type="button"
id="registerBtn">Register</button>
</form>
```

```
<hr>
```

```
<h2>Registered Students</h2>
```

```
<table id="studentTable">
```

```
    <thead>
```

```
        <tr>
```

```
            <th>Name</th>
```

```
            <th>Age</th>
```

```
            <th>Course</th>
```

```
            <th>Email</th>
```

```
        </tr>
```

```
        </thead>
        <tbody id="studentTableBody">
            </tbody>
        </table>
    </div>

    <script src="script.js"></script>
</body>
</html>
```

style.css

```
body {
    font-family: Arial, sans-serif;
    background-color: #f4f4f9;
    color: #333;
    display: flex;
    justify-content: center;
    align-items: center;
    padding: 20px;
}

.container {
    background: #fff;
    padding: 30px;
    border-radius: 8px;
    box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);
    width: 100%;
    max-width: 800px;
}
```

```
}
```

```
h1, h2 {  
  text-align: center;  
  color: #0056b3;  
}
```

```
.form-group {  
  margin-bottom: 15px;  
}
```

```
label {  
  display: block;  
  margin-bottom: 5px;  
  font-weight: bold;  
}
```

```
input[type="text"],  
input[type="number"],  
input[type="email"] {  
  width: 100%;  
  padding: 10px;  
  border: 1px solid #ccc;  
  border-radius: 4px;  
  box-sizing: border-box;  
}
```

```
button {  
  width: 100%;  
  padding: 12px;
```

```
background-color: #007bff;  
color: white;  
border: none;  
border-radius: 4px;  
cursor: pointer;  
font-size: 16px;  
font-weight: bold;  
}
```

```
button:hover {  
    background-color: #0056b3;  
}
```

```
table {  
    width: 100%;  
    border-collapse: collapse;  
    margin-top: 20px;  
}
```

```
th, td {  
    border: 1px solid #ddd;  
    padding: 12px;  
    text-align: left;  
}
```

```
th {  
    background-color: #007bff;  
    color: white;  
}
```

```
tbody tr:nth-child(even) {  
    background-color: #f2f2f2;  
}
```

script.js

```
document.addEventListener('DOMContentLoaded', () => {  
  
    const registerBtn =  
        document.getElementById('registerBtn');  
    const studentNameInput =  
        document.getElementById('studentName');  
    const studentAgeInput =  
        document.getElementById('studentAge');  
    const studentCourseInput =  
        document.getElementById('studentCourse');  
    const studentEmailInput =  
        document.getElementById('studentEmail');  
    const studentTableBody =  
        document.getElementById('studentTableBody');  
  
    registerBtn.addEventListener('click', () => {  
  
        const name = studentNameInput.value.trim();  
        const age = studentAgeInput.value.trim();
```

```
const course = studentCourseInput.value.trim();
const email = studentEmailInput.value.trim();

if (!name || !age || !course || !email) {
    alert('Please fill out all fields before
registering. ');
    return;
}

const newRow = document.createElement('tr');

const nameCell = document.createElement('td');
nameCell.textContent = name;

const ageCell = document.createElement('td');
ageCell.textContent = age;

const courseCell = document.createElement('td');
courseCell.textContent = course;

const emailCell = document.createElement('td');
emailCell.textContent = email;

newRow.appendChild(nameCell);
newRow.appendChild(ageCell);
newRow.appendChild(courseCell);
newRow.appendChild(emailCell);
```

```
studentTableBody.appendChild(newRow) ;
```

```
document.getElementById('registrationForm').reset()  
;  
});  
});
```

Output:

Student Registration Portal

Full Name:

e.g., John Doe

Age:

e.g., 20

Course:

e.g., Computer Science

Email:

e.g., john.doe@example.com

Register

Registered Students

| Name | Age | Course | Email |
|------|-----|--|----------------|
| John | 20 | Computer Science | john@gmail.com |
| Ave | 19 | Artificial Intelligence and Data Science | ave@gmail.com |

Code: 2

index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width,
    initial-scale=1.0">
  <title>Bookstore Catalog</title>
  <link rel="stylesheet" href="style.css">
</head>
<body>
  <div class="container">
    <h1>Bookstore Catalog System 📖</h1>

    <div class="form-container">
      <h2>Add a New Book</h2>
      <form id="addBookForm">
        <div class="form-group">
          <label
for="bookTitle">Title:</label>
          <input type="text" id="bookTitle"
required>
        </div>
        <div class="form-group">
```

```
        <label
for="bookAuthor">Author:</label>
        <input type="text" id="bookAuthor"
required>
    </div>
    <div class="form-group">
        <label for="bookPrice">Price
(₹) :</label>
        <input type="number" id="bookPrice"
step="0.01" required>
    </div>
    <div class="form-group">
        <label
for="bookStock">Stock:</label>
        <input type="number" id="bookStock"
required>
    </div>
    <button type="submit">Add Book</button>
</form>
</div>

<hr>

<h2>Available Books</h2>
<div id="bookListContainer">
    </div>
</div>

<script src="script.js"></script>
</body>
```

```
</html>
```

style.css

```
body {  
    font-family: Arial, sans-serif;  
    background-color: #f8f9fa;  
    color: #343a40;  
    padding: 20px;  
}  
  
.container {  
    max-width: 900px;  
    margin: auto;  
    background: #ffffff;  
    padding: 20px 40px;  
    border-radius: 10px;  
    box-shadow: 0 4px 12px rgba(0, 0, 0, 0.1);  
}  
  
h1, h2 {  
    color: #495057;
```

```
    text-align: center;
}

.form-container {
    margin-bottom: 30px;
    padding: 20px;
    border: 1px solid #dee2e6;
    border-radius: 8px;
}

.form-group {
    margin-bottom: 15px;
}

label {
    display: block;
    margin-bottom: 5px;
    font-weight: bold;
}

input[type="text"],
input[type="number"] {
    width: 100%;
    padding: 10px;
    border: 1px solid #ced4da;
    border-radius: 4px;
    box-sizing: border-box;
}

button {
```

```
width: 100%;
padding: 12px;
background-color: #28a745;
color: white;
border: none;
border-radius: 4px;
cursor: pointer;
font-size: 16px;
font-weight: bold;
}

button:hover {
    background-color: #218838;
}

#bookListContainer {
    display: grid;
    grid-template-columns: repeat(auto-fill,
        minmax(250px, 1fr));
    gap: 20px;
}

.book-card {
    background: #f8f9fa;
    border: 1px solid #dee2e6;
    border-radius: 8px;
    padding: 15px;
    box-shadow: 0 2px 4px rgba(0,0,0,0.05);
}
```

```
.book-card h3 {  
    margin-top: 0;  
    color: #007bff;  
}  
  
.book-card p {  
    margin: 5px 0;  
}  
  
.book-card .author {  
    font-style: italic;  
    color: #6c757d;  
}  
  
.book-card .price {  
    font-weight: bold;  
    color: #28a745;  
}
```

script.js

```
document.addEventListener('DOMContentLoaded', () => {  
  
    class Book {
```

```
        constructor(title, author, price, stock) {
            this.title = title;
            this.author = author;
            this.price = price;
            this.stock = stock;
        }
    }

const bookstoreCatalog = [
    new Book('The Great Gatsby', 'F. Scott
    Fitzgerald', 10.99, 15),
    new Book('To Kill a Mockingbird', 'Harper Lee',
    12.50, 20),
    new Book('1984', 'George Orwell', 9.99, 30)
];

const bookListContainer =
    document.getElementById('bookListContainer');
const addBookForm =
    document.getElementById('addBookForm');

const displayBooks = () => {
    bookListContainer.innerHTML = '';

    bookstoreCatalog.forEach(book => {
        const bookCard =
document.createElement('div');
        bookCard.className = 'book-card'; // Use
class for styling
    });
}
```

```

        bookCard.innerHTML = `
            <h3>${book.title}</h3>
            <p class="author">by ${book.author}</p>
            <p class="price">Price:
            ${book.price.toFixed(2)}</p>
            <p>Stock: ${book.stock} available</p>
        `;

        bookListContainer.appendChild(bookCard);
    });
};

const addBook = (event) => {
    event.preventDefault();

    const title =
document.getElementById('bookTitle').value;
    const author =
document.getElementById('bookAuthor').value;
    const price =
parseFloat(document.getElementById('bookPrice').value);
    const stock =
parseInt(document.getElementById('bookStock').value
, 10);

    if (title && author && !isNaN(price) &&
!isNaN(stock)) {
        const newBook = new Book(title, author,
price, stock);
    }
};

```



```

        bookstoreCatalog.push(newBook) ;

        displayBooks() ;

        addBookForm.reset() ;
    } else {
        alert('Please fill in all fields with valid
data. ');
    }
};

addBookForm.addEventListener('submit', addBook) ;

displayBooks() ;
});

```

Output:

Bookstore Catalog System

Add a New Book

Title:

Author:

Price (₹):

Stock:

Add Book

Available Books

The Great Gatsby

by F. Scott Fitzgerald

Price: \$10.99

Stock: 15 available

To Kill a Mockingbird

by Harper Lee

Price: \$12.50

Stock: 20 available

1984

by George Orwell

Price: \$9.99

Stock: 30 available

Engineering Mathematics

by G. V. Kumbhojkar: Books

Price: \$580.00

Stock: 40 available