EX NO:01   **BIODATA USING HTML TAGS**

DATE:03.07.2024

AIM: To design our biodata(resume)using basic HTML tags.

TAGS:

- <html>_ </html>   //wrap all contents
- <head>_</head>   //Holds metadata and links
- <title>_</title>   //Title of document
- <body>_</body>   //Main content
- <p>_</p>   //Defines a para of text
- _   //Bold letters
- _   //Unordered list
- <h>_</h>   //Represent to list item
- <a>_   //To create hyper links
- <tr>_</tr>   //Table row
- <td>_</td>   //Table cell
- <img> and
        //Stand alone tag to add image and line break in text

STYLE PROPERTIES USED:

-margin

-font

-display

-align items

-padding

-width

CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Minimalist Simple Design Freelancer Resume</title>
  <style>
```

```css
body {

  font-family: 'Helvetica Neue', Arial, sans-serif;

  line-height: 1.6;

  color: #333;

  margin: 0;

  padding: 0;

  background-color: #f4f4f4;

}

.container {

  display: flex;

  max-width: 900px;

  margin: 20px auto;

  background: #fff;

  box-shadow: 0 0 10px rgba(0,0,0,0.1);

}

.sidebar {

  width: 250px;

  background: #333;

  color: #fff;

  padding: 20px;

}

.main {

  flex: 1;

  padding: 20px;

}

h1 {

  font-size: 2.5em;

  margin: 0;

  color: #fff;

}

h2 {
```

```css
    font-size: 1.5em;

    margin-bottom: 10px;

    color: #333;

    border-bottom: 2px solid #333;

    padding-bottom: 5px;

}

h3 {

    font-size: 1.2em;

    margin-bottom: 5px;

    color: #333;

}

.section {

    margin-bottom: 20px;

}

.contact p, .education p, .skills p, .projects p, .summary p {

    margin: 5px 0;

}

.sidebar h2, .main h2 {

    margin-top: 0;

}

.contact p, .education p, .skills p, .projects p, .summary p {

    margin: 5px 0;

}

.skills p, .projects h3, .summary p {

    margin: 0;

}

.sidebar, .main {

    padding-top: 0;

}

.contact, .skills {

    margin-bottom: 20px;
```

```
        }
        .image {
            border-radius: 45%;


        }
    </style>
</head>
<body>
    <div class="container">
        <div class="sidebar">
            <img class ="image" src="me.jpg" alt="Image Description" height="8%" width="8%">
            <h1>Jaya Surya S</h1>
            <div class="contact">
                <h2>Contact</h2>
                <p>Phone: 8220141349</p>
                <a href="mailto:notifi1jaya@gmail.com">Email: notifi1jaya@gmail.com</a>
            </div>
            <div class="skills">
                <h2>Skills</h2>
                <p>Java</p>
                <p>ML Model Building</p>
                <p>Web Development</p>
                <p>Blockchain</p>
            </div>
        </div>
        <div class="main">
            <div class="section">
                <h2>Education</h2>
                <div class="education">
                    <h3>University - Coimbatore Institute of Technology</h3>
                    <p>2022-2027</p>
```

```html
        <h3>High School - Indhu International</h3>

        <p>2020-2022</p>

      </div>

    </div>

    <div class="section">

      <h2>Projects</h2>

      <div class="projects">

        <h3>Student Management System</h3>

        <p>Python Interface and Database Connectivity</p>

        <p>Streamlined student database system built with Python and DBMS technology.</p>

        <h3>Anime Watchlist</h3>

        <p>Website</p>

        <p>Node.js & DBMS powered anime watchlist management for enthusiasts.</p>

        <h3>Blockchain Cloud Storage</h3>

        <p>Blockchain Application</p>

        <p>Blockchain-based website for secure cloud storage solutions and file
management.</p>

      </div>

    </div>

    <div class="section">

      <h2>Summary</h2>

      <div class="summary">

        <p>A tech enthusiast with a passion for innovation, exploring Node.js, DBMS, blockchain,
and machine learning model building with energy and a quest for excellence.</p>

      </div>

    </div>

  </div>

 </div>

</body>

</html>
```

OUTPUT:

Jaya Surya S

Phone: 8220141349

Email: notifitjaya@gmail.com

Java
ML Model Building
Web Development
Blockchain

Education

University - Coimbatore Institute of Technology
2022-2027

High School - Indhu International
2020-2022

Projects

Student Management System

Python Interface and Database Connectivity

Streamlined student database system built with Python and DBMS technology.

Anime Watchlist

Website

Node.js & DBMS powered anime watchlist management for enthusiasts.

Blockchain Cloud Storage

Blockchain Application

Blockchain-based website for secure cloud storage solutions and file management.

Summary

A tech enthusiast with a passion for innovation, exploring Node.js, DBMS, blockchain, and machine learning model building with energy and a quest for excellence.

RESULT: Resume has been designed using html tags successfully.

EX NO:2 **DESIGN INVOICE FOR FOOD DELIVERY SYSTEM**

DATE: 09.07.24

AIM: To design an invoice for food delivery system using HTML.

TAGS:

- <html>_ </html>   //wrap all contents
- <head>_</head>   //Holds metadata and links
- <title>_</title>   //Title of document
- <body>_</body>   //Main content
- <p>_</p>   //Defines a para of text
- _   //Bold letters
- _   //Unordered list
- <h>_</h>   //Represent to list item
- <a>_   //To create hyper links
- <tr>_</tr>   //Table row
- <td>_</td>   //Table cell
- <img> and
        //Stand alone tag to add image and line break in text

STYLE PROPERTIES USED:

- -margin
- -font
- -display
- -align items
- -padding
- -width

CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Hotel Invoice</title>
  <style>
    body {
```

```css
    font-family: Arial, sans-serif;

    margin: 0;

    padding: 0;

    background-color: #f4f4f4;

}


.invoice {

    width: 80%;

    max-width: 800px;

    margin: 20px auto;

    padding: 20px;

    background: #fff;

    border-radius: 8px;

    box-shadow: 0 2px 5px rgba(0, 0, 0, 0.1);

}


header {

    text-align: center;

    margin-bottom: 20px;

}


header h1 {

    margin: 0;

    color: #333;

}


table {

    width: 100%;

    border-collapse: collapse;

    margin-bottom: 20px;
```

```css
    }

    table th, table td {
      border: 1px solid #ddd;
      padding: 8px;
      text-align: left;
    }

    table th {
      background-color: #4CAF50;
      color: white;
    }

    table tfoot td {
      font-weight: bold;
      background-color: #f2f2f2;
    }

    table tfoot td:last-child {
      text-align: right;
    }

    table tr:nth-child(even) {
      background-color: #f9f9f9;
    }
  </style>
</head>
<body>
  <div class="invoice">
    <header>
```

```html
        <h1>Hotel Invoice</h1>
        <p>Guest Name: Jayasurya S</p>
    </header>

    <table>
        <thead>
            <tr>
                <th>Dish Name</th>
                <th>Quantity</th>
                <th>Price</th>
                <th>Total</th>
            </tr>
        </thead>
        <tbody>
            <tr>
                <td>Poori</td>
                <td>2</td>
                <td>Rs12.00</td>
                <td>Rs24.00</td>
            </tr>
            <tr>
                <td>Vada</td>
                <td>1</td>
                <td>Rs8.00</td>
                <td>Rs8.00</td>
            </tr>
            <tr>
                <td>Dosa</td>
                <td>1</td>
                <td>Rs15.00</td>
```

```html
          <td>Rs15.00</td>
        </tr>
      </tbody>
      <tfoot>
        <tr>
          <td colspan="3">Subtotal</td>
          <td>Rs47.00</td>
        </tr>
        <tr>
          <td colspan="3">Tax (10%)</td>
          <td>Rs4.70</td>
        </tr>
        <tr>
          <td colspan="3"><strong>Total</strong></td>
          <td><strong>Rs51.70</strong></td>
        </tr>
      </tfoot>
    </table>
  </div>
</body>
</html>
```

OUTPUT:

Hotel Invoice

Guest Name: Jayasurya S

Dish Name	Quantity	Price	Total
Poori	2	Rs12.00	Rs24.00
Vada	1	Rs8.00	Rs8.00
Dosa	1	Rs15.00	Rs15.00
Subtotal			**Rs47.00**
Tax (10%)			**Rs4.70**
Total			**Rs51.70**

RESULT: An invoice for food delivery system is designed successfully using HTML.

EX NO:3   <u>**DESIGNING STATIC WEB PAGES**</u>

DATE:16.07.24   <u>**FOR ONLINE BOOK STORE**</u>

<u>**AIM**</u>: To design web page for an online book-store website.

<u>**TAGS:**</u>

- <html>_ </html>   //wrap all contents
- <head>_</head>   //Holds metadata and links
- <title>_</title>   //Title of document
- <body>_</body>   //Main content
- <p>_</p>   //Defines a para of text
- _   //Bold letters
- _   //Unordered list
- <h>_</h>   //Represent to list item
- <a>_   //To create hyper links
- <tr>_</tr>   //Table row
- <td>_</td>   //Table cell
- <img> and
          //Stand alone tag to add image and line break in text

<u>**STYLE PROPERTIES USED:**</u>

- -margin
- -font
- -display
- -align items
- -padding
- -width

<u>**CODE:**</u>

<u>**HOME PAGE:**</u>

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>Online Book Store</title>

  <link rel="stylesheet" href="style.css">
```

```html
</head>
<body>
  <div class="top-div">
    <h1>Coimbatore Institute of Technology
      ONLINE BOOK STORE
    </h1>
    <nav>
      <a href="homepage.html">Home</a>
      <a href="loginpage.html">Login</a>
      <a href="registration.html">Registration</a>
      <a href="catalogue.html">Catalogue</a>
      <a href="cart.html">Cart</a>
    </nav>
  </div>
  <div class="container">
    <div class="right-div" id="content">
      <p>Welcome to the Online Book Store, your one-stop destination for a diverse range of academic books tailored to various fields of study. </p>
      <p>This website is designed to facilitate easy access to textbooks and reference materials for students and faculty members across different disciplines.</p>
    </div>
  </div>
</body>
</html>
```
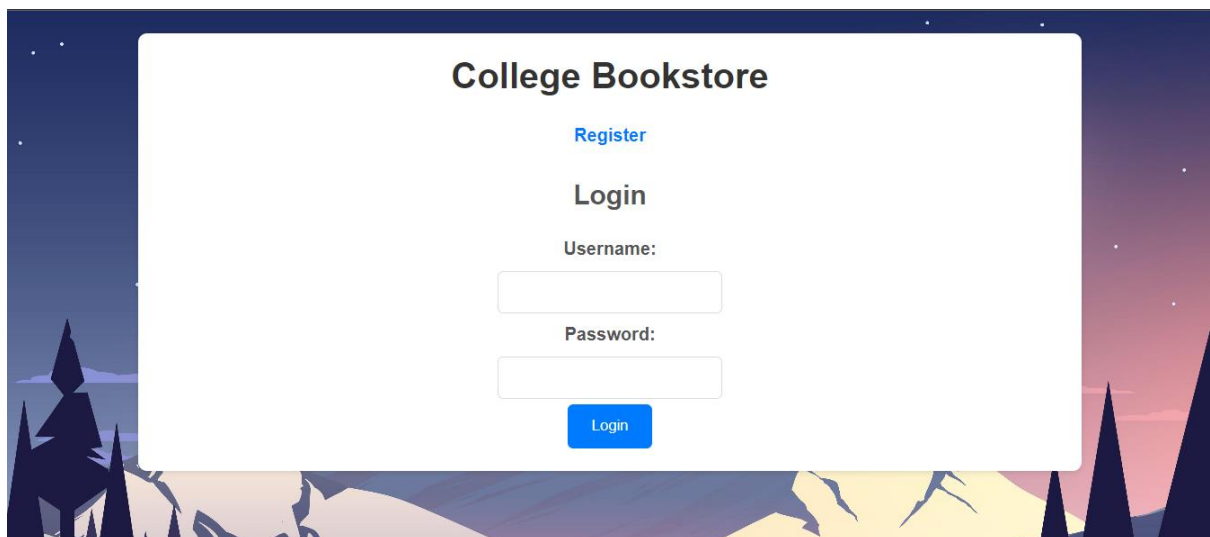
LOGIN PAGE:

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Login - Online Book Store</title>
```

```html
</head>
<body>
  <div class="top-div">
    <h1>Coimbatore Institute of Technology

      ONLINE BOOK STORE

    </h1>
    <nav>
      <a href="homepage.html">Home</a>
      <a href="loginpage.html">Login</a>
      <a href="registration.html">Registration</a>
      <a href="catalogue.html">Catalogue</a>
      <a href="cart.html">Cart</a>
    </nav>
  </div>
  <div class="container">

    <div class="right-div" id="content">
      <div class="form-div">
        <form action="loginpage.html" method="post">
          <label for="login">Login:</label>
          <input type="text" id="login" name="login" required>
          <label for="password">Password:</label>
          <input type="password" id="password" name="password" required>
          <button type="submit">Submit</button>
          <button type="reset">Reset</button>
        </form>
      </div>
    </div>
  </div>
</body>
```
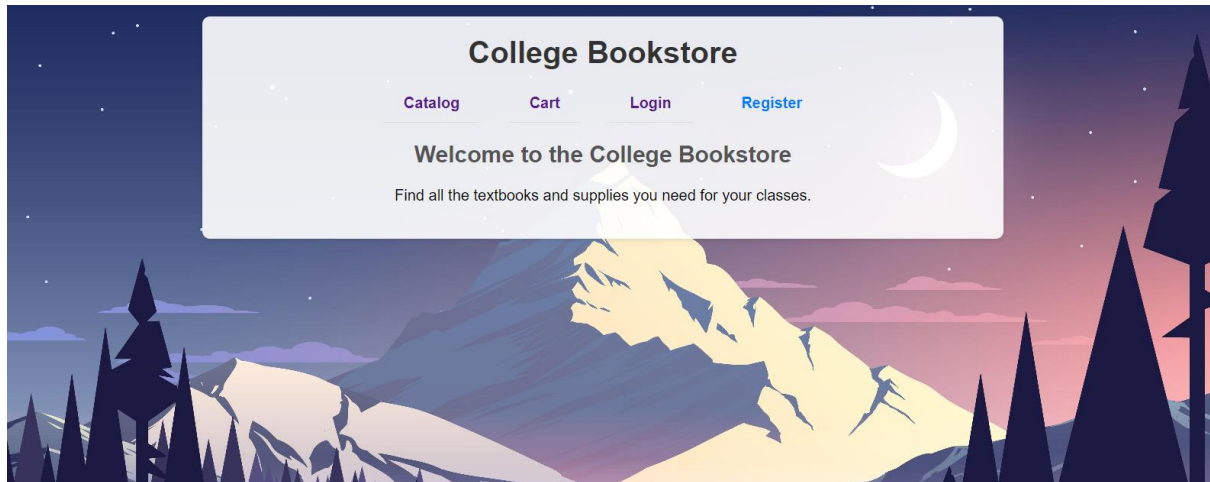
</html>

OUTPUT:

RESULT: Home page and login page for bookstore is created successfully

ONLINE BOOK STORE

(CATALOGUE AND CART PAGE)

AIM: To design a catalogue and cart page for the online book store web page.

TAGS:

- <html>_ </html>   //wrap all contents
- <head>_</head>   //Holds metadata and links
- <title>_</title>   //Title of document
- <body>_</body>   //Main content
- <p>_</p>   //Defines a para of text
- _   //Bold letters
- _   //Unordered list
- _   //Ordered list
- <h>_</h>   //Represent to list item
- <a>_   //To create hyper links
- <img> and
      //Stand alone tag to add image and line break in text

STYLE PROPERTIES USED:

- -margin
- -font
- -display
- -align items
- -padding
- -width

CODE:

CATALOGUE PAGE:

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

```html
<body>
  <div class="top-div">
    <h1>Coimbatore Institute of Technology
      ONLINE BOOK STORE
    </h1>
    <nav>
      <a href="homepage.html">Home</a>
      <a href="loginpage.html">Login</a>
      <a href="registration.html">Registration</a>
      <a href="catalogue.html">Catalogue</a>
      <a href="cart.html">Cart</a>
    </nav>
  </div>
  <div class="container">
    <div class="left-div">
      <p>Explore our wide range of books available in our catalogue.</p>
    </div>
    <div class="right-div" id="content">
      <h2>Catalogue</h2>
      <ul class="book-list">
        <li>
          <span>Introduction to Algorithms by Thomas H. Cormen</span>
          <button onclick="addToCart('Introduction to Algorithms by Thomas H. Cormen')">Add to Cart</button>
        </li>
        <li>
          <span>Artificial Intelligence: A Modern Approach by Stuart Russell and Peter Norvig</span>
          <button onclick="addToCart('Artificial Intelligence: A Modern Approach by Stuart Russell and Peter Norvig')">Add to Cart</button>
        </li>
```

```html
            <li>

                <span>Computer Networks by Andrew S. Tanenbaum</span>

                <button onclick="addToCart('Computer Networks by Andrew S. Tanenbaum')">

                    Add to Cart</button>

            </li>

            <li>

                <span>Operating System Concepts by Abraham Silberschatz</span>

                <button onclick="addToCart('Operating System Concepts by Abraham
Silberschatz')">Add to Cart</button>

            </li>

            <li>

                <span>Database System Concepts by Avi Silberschatz, Henry F. Korth, and S.
Sudarshan</span>

                <button onclick="addToCart('Database System Concepts by Avi Silberschatz,
Henry F. Korth, and S. Sudarshan')">Add to Cart</button>

            </li>

        </ul>

    </div>

  </div>

</body>

</html>
```

CART PAGE:

```html
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Cart - Online Book Store</title>

    <link rel="stylesheet" href="style.css">

    <style>
```

```css
body {
    font-family: Arial, sans-serif;
}
.top-div {
    text-align: center;
    padding: 10px;
    background-color: #f4f4f4;
}
.container {
    display: flex;
}
.left-div {
    width: 20%;
    background-color: #f4f4f4;
    padding: 10px;
}
.right-div {
    width: 80%;
    padding: 10px;
}
.navigation a {
    display: block;
    margin: 5px 0;
    text-decoration: none;
    color: #333;
}
.navigation a:hover {
    text-decoration: underline;
}
.cart-list {
```

```
      list-style-type: none;

      padding: 0;

    }

    .cart-list li {

      margin: 10px 0;

    }

    .cart-list button {

      margin-left: 10px;

      padding: 5px 10px;

    }

  </style>

</head>

<body>

  <div class="top-div">

    <h1>Coimbatore Institute of Technology

      ONLINE BOOK STORE

    </h1>

    <nav>

      <a href="homepage.html">Home</a>

      <a href="loginpage.html">Login</a>

      <a href="registration.html">Registration</a>

      <a href="catalogue.html">Catalogue</a>

      <a href="cart.html">Cart</a>

    </nav>

  </div>

  <div class="container">

    <div class="left-div">

      <p>Your selected books will appear here. Review your cart before proceeding to
checkout.</p>

    </div>

    <div class="right-div" id="content">
```
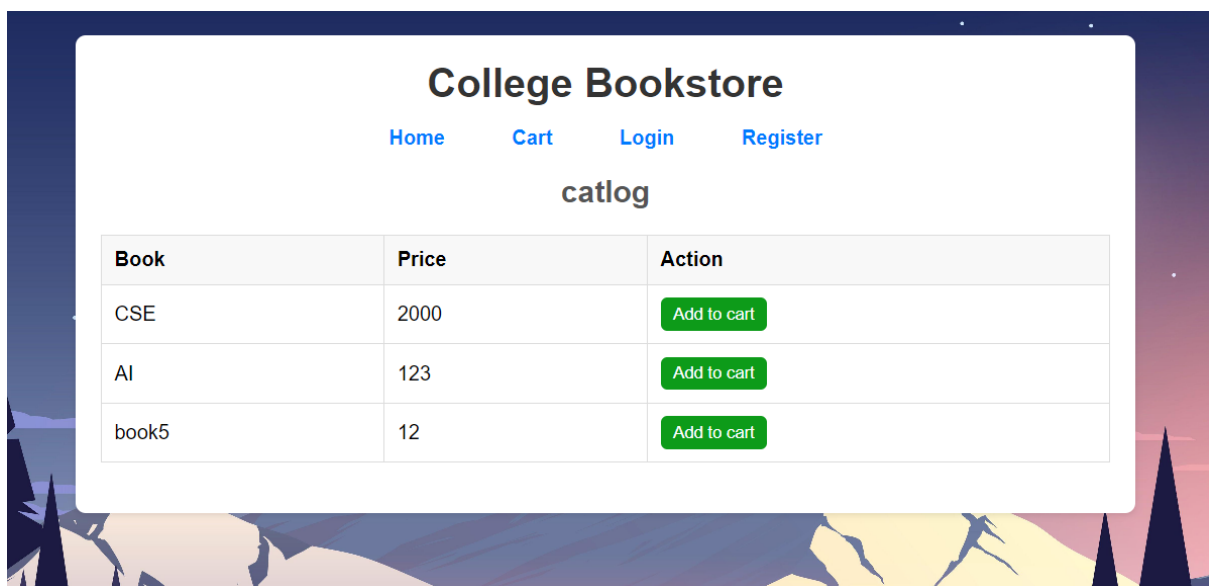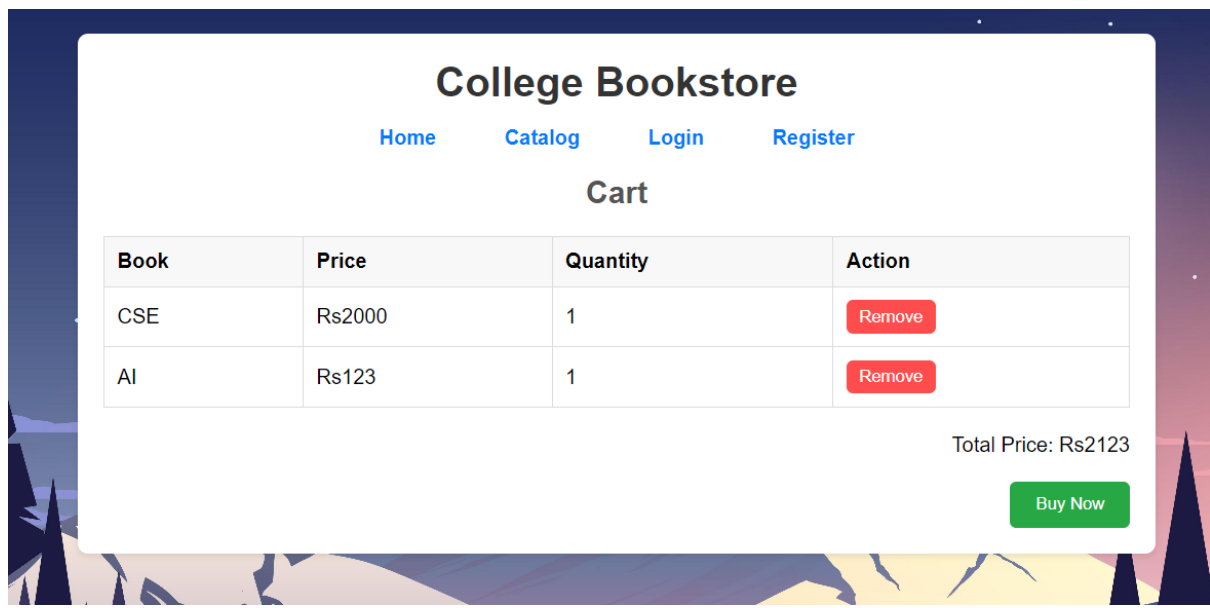
```html
<h2>Your Cart</h2>

<ul class="cart-list" id="cartList">

    <!-- Cart items will be dynamically added here -->

</ul>

</div>

</div>


</body>

</html>
```

OUTPUT:

College Bookstore

Home   Catalog   Login   Register

Cart

Book	Price	Quantity	Action
CSE	Rs2000	1	Remove
AI	Rs123	1	Remove

Total Price: Rs2123

Buy Now

RESULT: The catalogue page and cart page are created successfully for the online bookstore

EX NO:5   <u>**ONLINE BOOK STORE**</u>

DATE:23.07.24   **(REGISTRATION FORM & VALIDATION)**

<u>AIM:</u> To design and implement a registration form for the online book store web page and provide validation for it using javascript.

<u>TAGS:</u>

- <html>_ </html>   //wrap all contents
- <head>_</head>   //Holds metadata and links
- <title>_</title>   //Title of document
- <body>_</body>   //Main content
- <p>_</p>   //Defines a para of text
- _   //Bold letters
- _   //Unordered list
- _   //Ordered list
- <h>_</h>   //Represent to list item
- <a>_   //To create hyper links
- <img> and
     //Stand alone tag to add image and line break in text

<u>STYLE PROPERTIES USED:</u>

- -margin
- -font
- -display
- -align items
- -padding
- -width

<u>CODE:</u>

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Registration - Online Book Store</title>
  <style>
    body {
      font-family: Arial, sans-serif;  }
```

```css
.top-div {
    text-align: center;
    padding: 10px;
    background-color: #f4f4f4;
}
.container {
    display: flex;
}
.left-div {
    width: 20%;
    background-color: #f4f4f4;
    padding: 10px;
}
.right-div {
    width: 80%;
    padding: 10px;
}
.navigation a {
    display: block;
    margin: 5px 0;
    text-decoration: none;
    color: #333;
}
.navigation a:hover {
    text-decoration: underline;
}
.form-div {
    text-align: center;
    margin-top: 50px;
}
```

```css
.form-div form {
    display: inline-block;
    text-align: left;
}
.form-div input,
.form-div select,
.form-div textarea {
    display: block;
    margin: 10px 0;
    padding: 5px;
    width: 100%;
}
.form-div button {
    margin: 10px 5px;
    padding: 5px 10px;
}
.form-div .inline-group {
    display: flex;
    align-items: center;
}
.form-div .inline-group label {
    margin-right: 10px;
}
.form-div .inline-group input[type="radio"] {
    margin-right: 5px;
}
.form-div .inline-group .checkbox-group {
    display: flex;
    flex-direction: column;
}
```

```
</style>
<script>
  function validateForm() {
    var password = document.getElementById("password").value;
    var phone = document.getElementById("phone").value;
    var email = document.getElementById("email").value;
    var emailPattern = /^[a-zA-Z0-9._-]+@gmail\.com$/;
    var phonePattern = /^\d{10}$/;
    var namePattern = /^[a-zA-Z\s]+$/;

    if (!emailPattern.test(email)) {
      alert("Please enter a valid email address ending with @gmail.com.");
      return false;
    }
    if (!phonePattern.test(phone)) {
      alert("Please enter a valid 10-digit phone number.");
      return false;
    }
    if (password.length < 6) {
      alert("Password must be at least 6 characters long.");
      return false;
    }
    if (!namePattern.test(document.getElementById("name").value)) {
      alert("Name must contain only letters and spaces.");
      return false;
    }
    return true;
  }
</script>
 <link rel="stylesheet" href="style.css">
```

```html
</head>
<body>
  <div class="top-div">
    <h1>Coimbatore Institute of Technology</h1>
    <nav>
      <a href="homepage.html">Home</a>
      <a href="loginpage.html">Login</a>
      <a href="registration.html">Registration</a>
      <a href="catalogue.html">Catalogue</a>
      <a href="cart.html">Cart</a>
    </nav>
  </div>
  <div class="container">
    <div class="left-div">
      <p>Register to create a new account and start shopping for books.</p>
    </div>
    <div class="right-div" id="content">
      <div class="form-div">
        <form action="registration_process.html" method="post" onsubmit="return validateForm()">
          <label for="name">Name:</label>
          <input type="text" id="name" name="name" pattern="[a-zA-Z\s]+" title="Name must contain only letters and spaces" required>
          <label for="email">Email:</label>
          <input type="email" id="email" name="email" required>
          <label for="password">Password:</label>
          <input type="password" id="password" name="password" minlength="6" required>

          <label for="phone">Phone Number:</label>
          <input type="tel" id="phone" name="phone" pattern="\d{10}" title="Please enter a valid 10-digit phone number" required
```

```html
        <div class="inline-group">

            <label>Sex:</label>

            <label><input type="radio" name="sex" value="male" required>
Male</label>

            <label><input type="radio" name="sex" value="female" required>
Female</label>

        </div>

        <label for="dob">Date of Birth:</label>

        <input type="date" id="dob" name="dob" required>

        <div class="inline-group">

            <label>Languages Known:</label>

            <div class="checkbox-group">

                <label><input type="checkbox" name="languages" value="English">
English</label>

                <label><input type="checkbox" name="languages" value="Telugu">
Telugu</label>

                <label><input type="checkbox" name="languages" value="Hindi">
Hindi</label>

                <label><input type="checkbox" name="languages" value="Tamil">
Tamil</label>

            </div>

        </div>

        <label for="address">Address:</label>

        <textarea id="address" name="address" rows="4" required></textarea>

        <button type="submit">Submit</button>

        <button type="reset">Reset</button>

      </form>

    </div>

  </div>

</body>

</html>
```
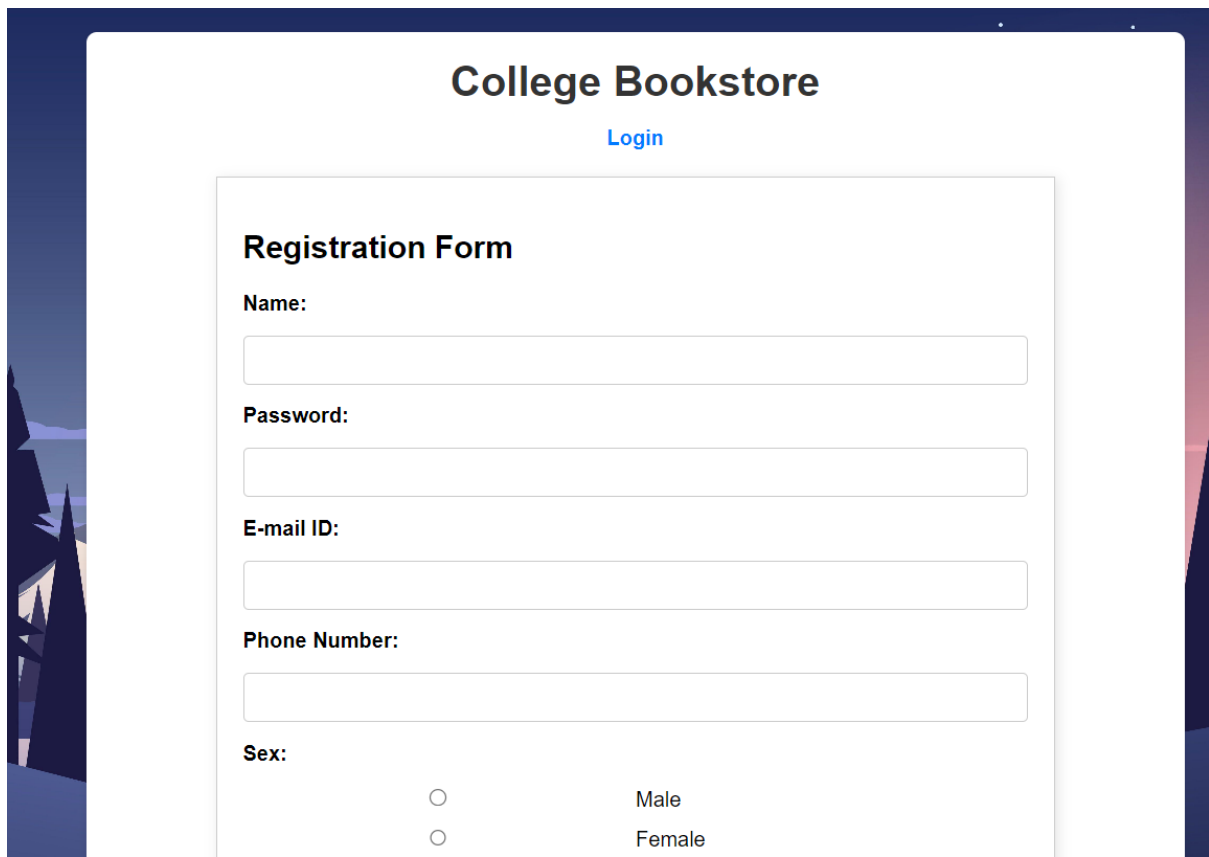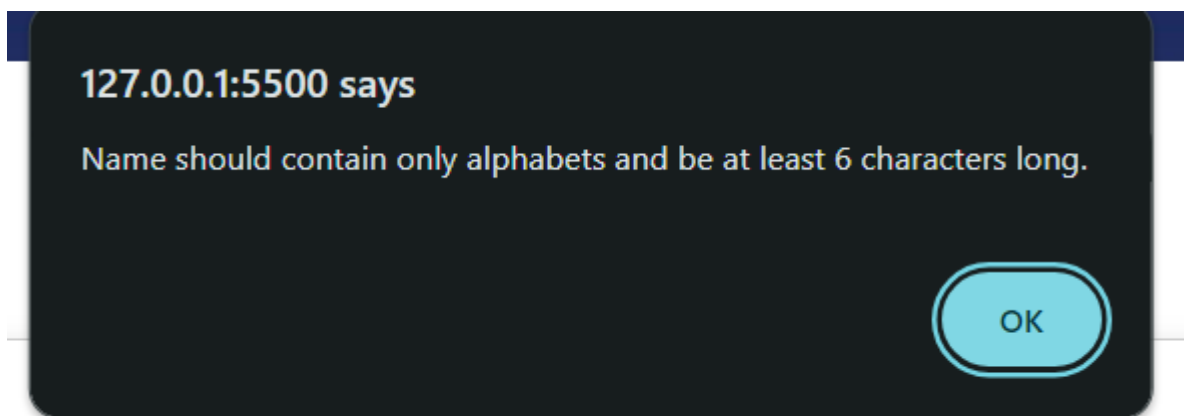
OUTPUT:

College Bookstore

Login

Registration Form

Name:

Password:

E-mail ID:

Phone Number:

Sex:

○   Male

○   Female

127.0.0.1:5500 says

Name should contain only alphabets and be at least 6 characters long.

OK

ration Form

RESULT: The registration page with validation conditions is created successfully.

EX NO:6   <u>**ONLINE BOOK STORE**</u>

DATE:31.07.24   **(DESIGNING CSS)**

<u>**AIM:**</u>

To create cascading style sheets(css page) for online book store web page.

<u>**STYLES:**</u>

- <nav> : include links to all pages
- Background image
- Font styles
- Nav a {hover} : underlines when point is placed over a link
- Background size: cover:- sets the image to full background
- Background repeat no-repeat: ensures background image is not repeated.

<u>**CSS CODE:**</u>

```
body {
    font-family: Arial, sans-serif;
    margin: 0;
    padding: 0;
    background-color: #f0f8ff;
    color: #333;
        font-family: Arial, sans-serif;
        background: url('library.png') no-repeat center center fixed;
        background-size: cover;
        margin: 0;
        padding: 0;
}
h1 {
    margin: 0;
    padding: 20px;
    color: #fff;
    background-color: #ff6347;
}
```

```css
nav {
  margin-top: 10px;
}
nav a {
  display: inline-block;
  margin: 0 10px;
  padding: 10px 20px;
  text-decoration: none;
  color: #fff;
  background-color: #20b2aa;
  border-radius: 5px;
  transition: background-color 0.3s, transform 0.3s;
}
nav a:hover {
  background-color: #3cb371;
  transform: scale(1.05);
}
.container {
  display: flex;
  margin: 20px;
}
.left-div {
  width: 20%;
  background-color: #e6e6fa;
  padding: 20px;
  border-right: 1px solid #dcdcdc;
}
.right-div {
  width: 80%;
  padding: 20px;
```
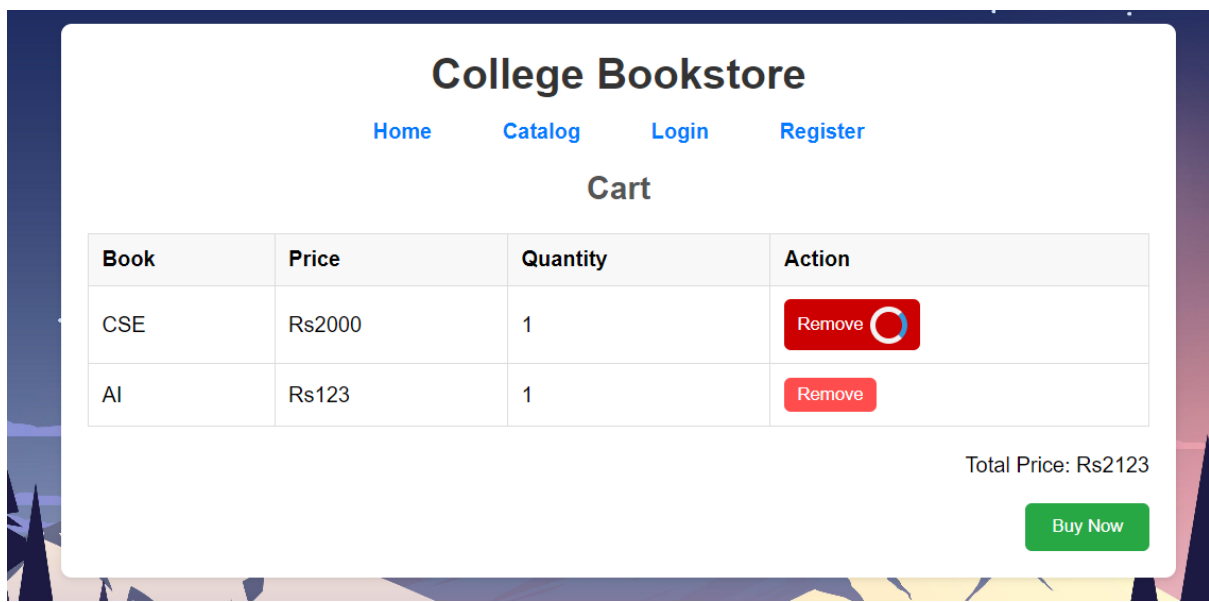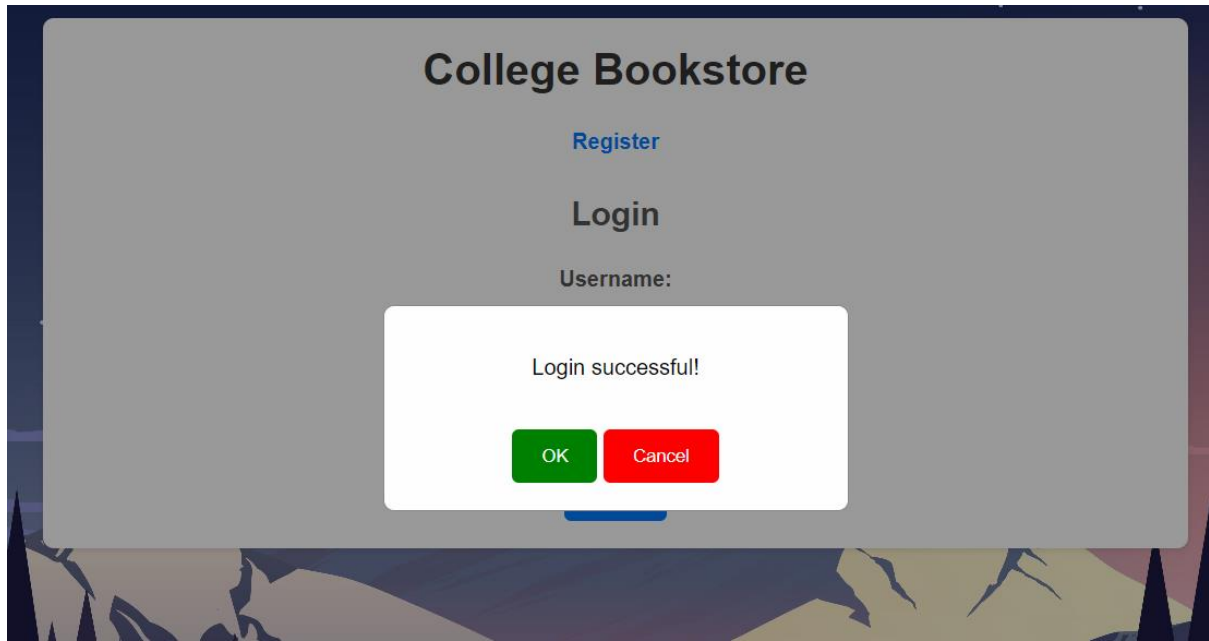
```css
    background-color: #fffafa;

    border-left: 1px solid #dcdcdc;

}

.navigation a {

    display: block;

    margin: 10px 0;

    padding: 10px;

    text-decoration: none;

    color: #333;

    background-color: #f0e68c;

    border: 1px solid #dcdcdc;

    border-radius: 5px;

    transition: background-color 0.3s, transform 0.3s;

}

.navigation a:hover {

    background-color: #ffd700;

    transform: scale(1.05);

}

.top-div {

    background-color: #ff6347;

    padding: 20px;

    color: #fff;

    text-align: center;

}

p {

    margin: 20px 0;

    line-height: 1.6;

}
```

OUTPUT:

RESULT: The css styling is successfully implemented for the online bookstore web page.

EX NO:7   <u>**ONLINE BOOK STORE**</u>

DATE:31.07.24   <u>**DYNAMIC PAGE USING JAVASCRIPT**</u>

<u>**AIM:**</u> To make the catalogue and cart page work dynamically using JavaScript concepts.

<u>**JAVASCRIPT CODE / LOGIC:**</u>

1. CATALOGUE PAGE:

```html
<script>
    function addToCart(book) {
        //current cart from local storage
        let cart = JSON.parse(localStorage.getItem('cart')) || [];

        cart.push(book);

        // Save the updated cart back to local storage
        localStorage.setItem('cart', JSON.stringify(cart));

        alert(book + ' has been added to your cart.');
    }
</script>
```
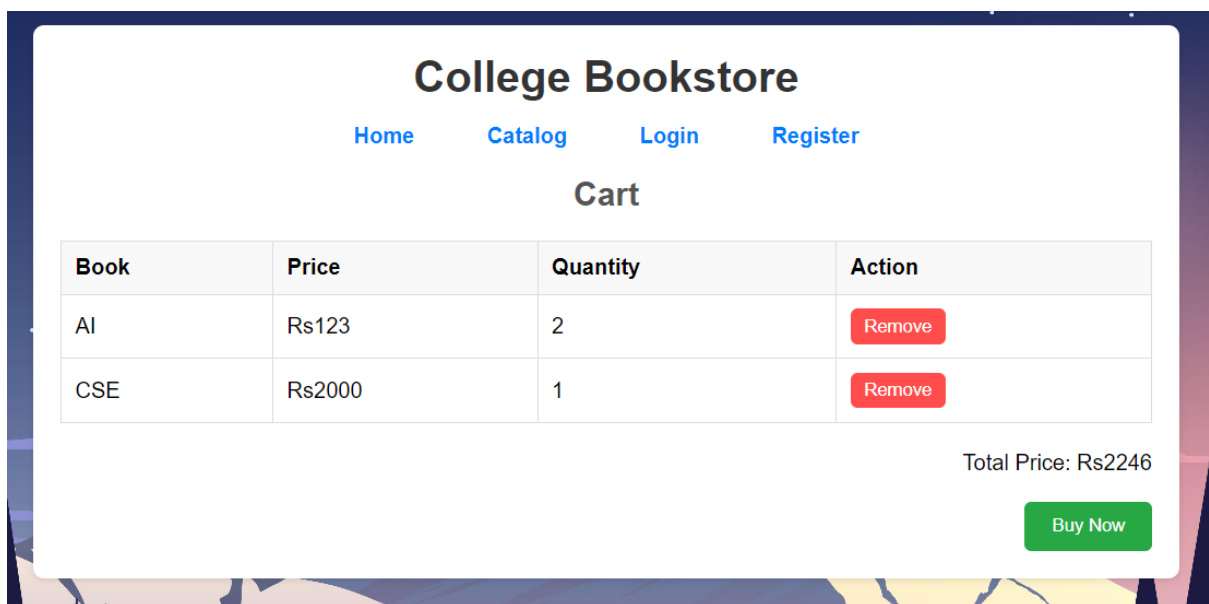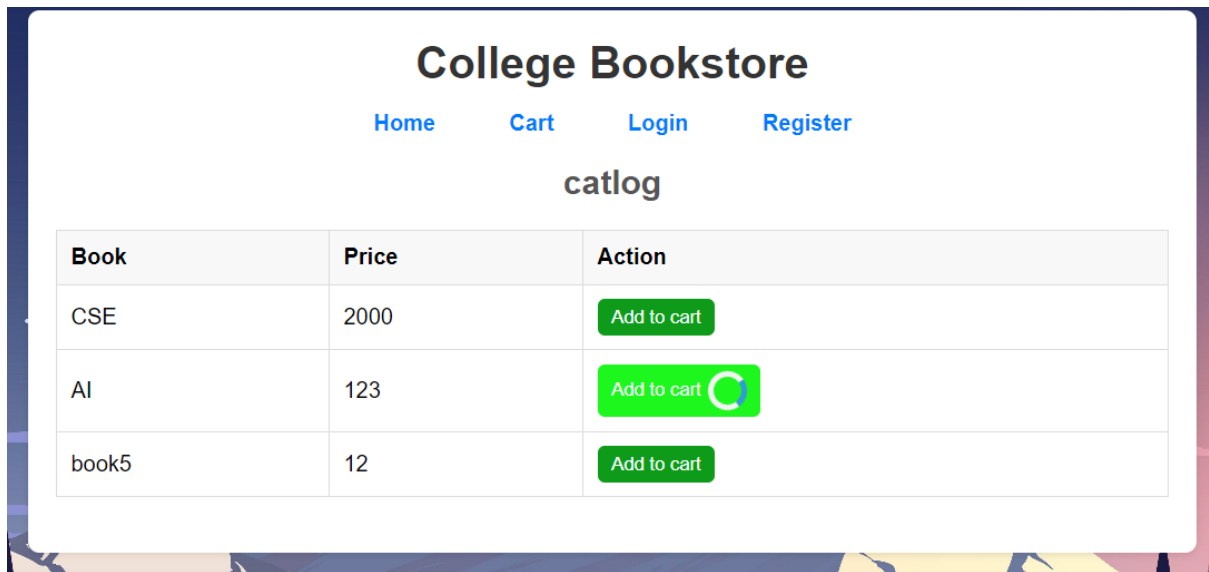
2. CART PAGE:

```html
<script>
    function loadCart() {
        let cart = JSON.parse(localStorage.getItem('cart')) || [];
        const cartList = document.getElementById('cartList');
        cartList.innerHTML = '';
        cart.forEach((book, index) => {
            const li = document.createElement('li');
            li.innerHTML = `
                <span>${book}</span>
                <button onclick="removeFromCart(${index})">Remove</button>
            `;
            cartList.appendChild(li);
        });
    }

    function removeFromCart(index) {
        let cart = JSON.parse(localStorage.getItem('cart')) || [];
        cart.splice(index, 1);
        localStorage.setItem('cart', JSON.stringify(cart));
        loadCart();
    }
    window.onload = loadCart;
</script>
```

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OUTPUT:

RESULT: Both catalogue and cart pages are changed to dynamic pages using javascript function.

CALCULATOR

(USING JAVASCRIPT)

AIM: To implement a calculator using JavaScript.

HTML-CODE:

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Simple Calculator</title>
    <link rel="stylesheet" href="style.css">
</head>
<body>
    <div class="calculator">
        <input type="text" id="display" disabled>
        <div class="buttons">
            <button onclick="clearDisplay()">C</button>
            <button onclick="deleteLast()">DEL</button>
            <button onclick="appendOperator('/')">/</button>
            <button onclick="appendOperator('*')">*</button>
            <button onclick="appendNumber('7')">7</button>
            <button onclick="appendNumber('8')">8</button>
            <button onclick="appendNumber('9')">9</button>
            <button onclick="appendOperator('-')">-</button>
            <button onclick="appendNumber('4')">4</button>
            <button onclick="appendNumber('5')">5</button>
            <button onclick="appendNumber('6')">6</button>
            <button onclick="appendOperator('+')">+</button>
            <button onclick="appendNumber('1')">1</button>
```

```html
        <button onclick="appendNumber('2')">2</button>
        <button onclick="appendNumber('3')">3</button>
        <button onclick="calculate()">=</button>
        <button onclick="appendNumber('0')">0</button>
        <button onclick="appendNumber('.')">.</button>
      </div>
    </div>
    <script src="script.js"></script>
  </body>
</html>
```

CSS CODE:

```css
body {
    display: flex;
    justify-content: center;
    align-items: center;
    height: 100vh;
    background-color: #f0f0f0;
   background-image: url(CALC.jpg);
    margin: 0;
}
.calculator {
    background-color: white;
    border-radius: 10px;
    box-shadow: 0 0 20px rgba(0, 0, 0, 0.1);
    padding: 20px;
    width: 300px;
}
#display {
    width: 100%;
```

```css
    height: 40px;

    font-size: 24px;

    text-align: right;

    margin-bottom: 10px;

    padding: 5px;

    border-radius: 5px;

    border: 1px solid #ccc;

}
.buttons {

    display: grid;

    grid-template-columns: repeat(4, 1fr);

    gap: 10px;

}
button {

    padding: 15px;

    font-size: 18px;

    border: none;

    border-radius: 5px;

    cursor: pointer;

    background-color: #e0e0e0;

}
button:hover {

    background-color: #d0d0d0;

}
button:active {

    background-color: #c0c0c0;

}
```

JAVASCRIPT CODE:

```javascript
function clearDisplay() {
    document.getElementById('display').value = '';
}


function deleteLast() {
    let display = document.getElementById('display');
    display.value = display.value.slice(0, -1);
}


function appendNumber(number) {
    document.getElementById('display').value += number;
}


function appendOperator(operator) {
    let display = document.getElementById('display').value;
    if (display && !isNaN(display.slice(-1))) {
        document.getElementById('display').value += operator;
    }
}


function calculate() {
    let display = document.getElementById('display').value;
    try {
        document.getElementById('display').value = eval(display);
    } catch {
        document.getElementById('display').value = 'Error';
    }
}
```
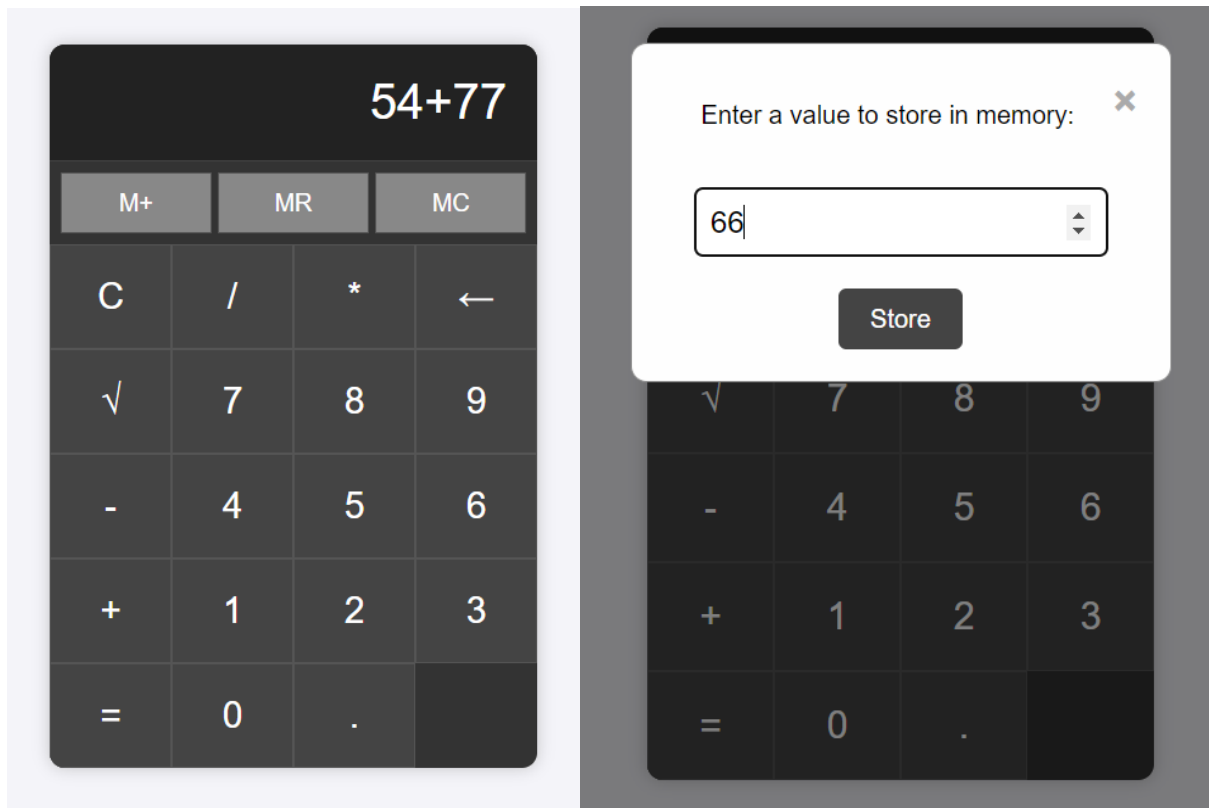
OUTPUT:

RESULT: A calculator is implemented successfully.

EX NO:9   <u>**RESPONSIVE WEBPAGES USING**</u>

DATE:13.08.24   <u>**HTML,CSS :- VIDEO PLAYER**</u>

<u>**AIM:**</u> To create a responsive webpage with videoplayer.

<u>**CODE:**</u>

```html
<!DOCTYPE html>
<html>
<head>
 <style>
  body {
   background: #111;
  }
  .video {
   /* the good stuff: */
   height: 0;
   padding-bottom: 42.6%; /* ratio of the video 16/9 would be 56.25% */
   position: relative;
  }
  .video__frame {
   /* .video__frame */
   position: absolute;
   top: 0;
   right: 0;
   bottom: 0;
   left: 0;
   width: 100%;
   height: 100%;
  }
```

```html
    iframe {
     width: 100%;
     height: 100%;
     box-shadow: 0 0 40px #000;
    }
    .container {
     position: relative; /* this must be relative or absolute.. or fixed */
     width: 90%;
     margin: 10vh auto;
    }
  </style>
</head>
<body>
 <div class="container">
   <div class="video">
    <div class="video__frame">
     <iframe src="https://player.vimeo.com/video/39822385" frameborder="0"
webkitallowfullscreen mozallowfullscreen allowfullscreen></iframe>
    </div>
   </div>
 </div>
</body>
</html>
```

OUTPUT:

RESULT: A responsive website of videoplayer is implemented successfully.

EX NO:10   **JSON IMPLEMENTATION**

DATE:14.08.2024

AIM: To implement json in online bookstore webpage for catalogue and cart.

CODE:

1. CATALOGUE PAGE:

```
<script>
    function addToCart(book) {
        //current cart from local storage
        let cart = JSON.parse(localStorage.getItem('cart')) || [];

        cart.push(book);

        // Save the updated cart back to local storage
        localStorage.setItem('cart', JSON.stringify(cart));

        alert(book + ' has been added to your cart.');
    }
</script>
```
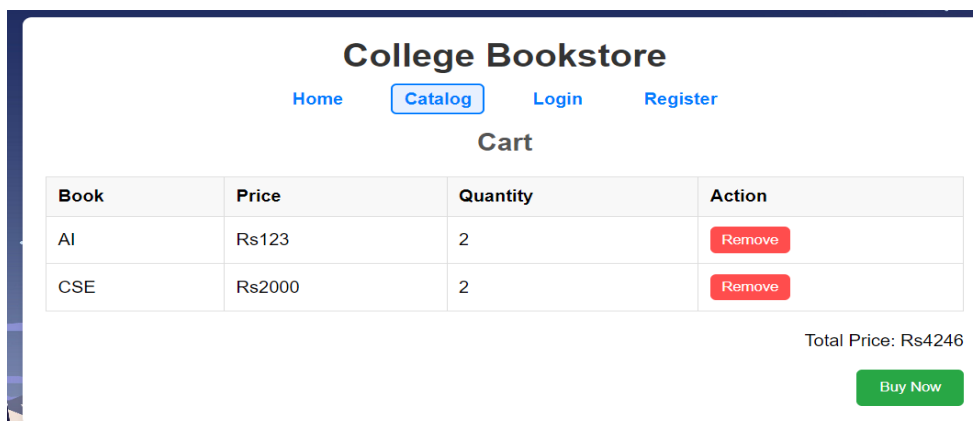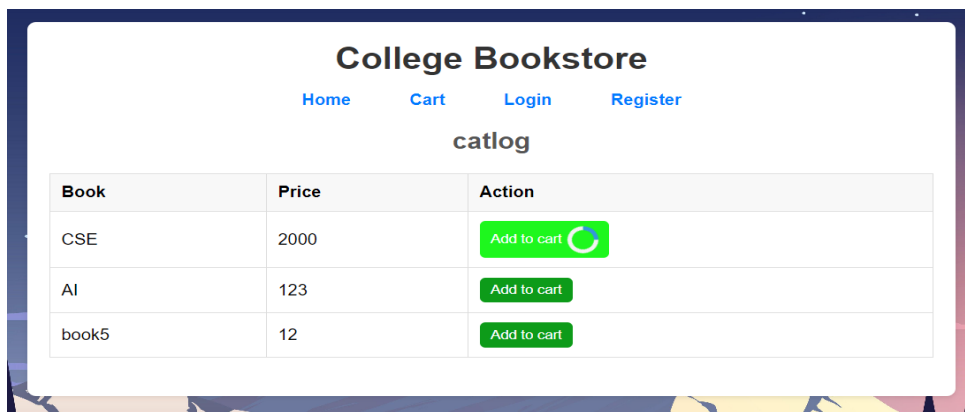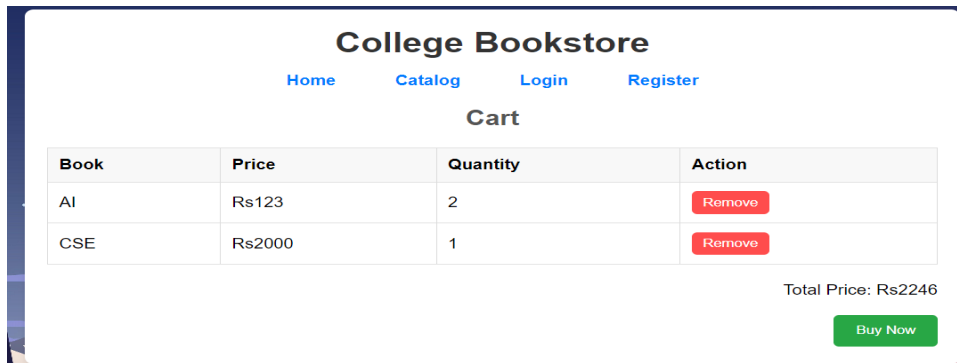
2. CART PAGE:

```
<script>
    function loadCart() {
        let cart = JSON.parse(localStorage.getItem('cart')) || [];
        const cartList = document.getElementById('cartList');
        cartList.innerHTML = '';
        cart.forEach((book, index) => {
            const li = document.createElement('li');
            li.innerHTML = `
                <span>${book}</span>
                <button onclick="removeFromCart(${index})">Remove</button>
            `;
            cartList.appendChild(li);
        });
    }

    function removeFromCart(index) {
        let cart = JSON.parse(localStorage.getItem('cart')) || [];
        cart.splice(index, 1);
        localStorage.setItem('cart', JSON.stringify(cart));
        loadCart();
    }
    window.onload = loadCart;
</script>
```

OUTPUT:

College Bookstore

Home   Catalog   Login   Register

Cart

Book	Price	Quantity	Action
AI	Rs123	2	Remove
CSE	Rs2000	1	Remove

Total Price: Rs2246

Buy Now

College Bookstore

Home   Cart   Login   Register

catlog

Book	Price	Action
CSE	2000	Add to cart
AI	123	Add to cart
book5	12	Add to cart

College Bookstore

Home   Catalog   Login   Register

Cart

Book	Price	Quantity	Action
AI	Rs123	2	Remove
CSE	Rs2000	2	Remove

Total Price: Rs4246

Buy Now

RESULT: JSON concept is successfully implemented in the online bookstore page in catalogue and cart page.