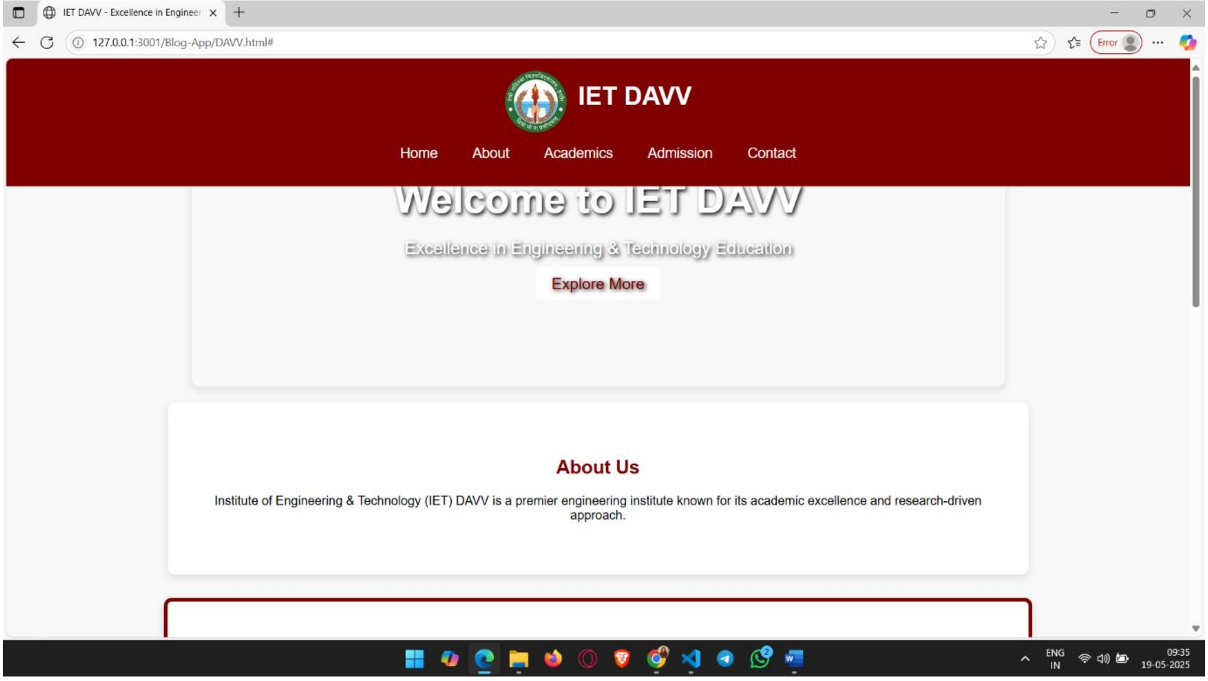
Assignment 2

Davv.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>IET DAVV - Excellence in Engineering</title>
  <style>
    body {
      font-family: 'Arial', sans-serif;
      margin: 0;
      padding: 0;
      text-align: center;
      background-color: #f8f8f8;
    }
    header {
      background-color: #800000;
      color: white;
      padding: 15px 0;
      position: fixed;
      width: 100%;
      top: 0;
      z-index: 1000;
    }
    .logo img {
      width: 80px;
      vertical-align: middle;
    }
    .logo h1, .logo h2 {
      display: inline;
      margin-left: 10px;
    }
    nav ul {
      list-style: none;
      padding: 0;
    }
    nav ul li {
      display: inline;
      margin: 0 20px;
    }
    nav ul li a {
      color: white;
      text-decoration: none;
      font-size: 18px;
      transition: 0.3s;
    }
    nav ul li a:hover {
      text-decoration: underline;
    }
    .hero {
      background: url("campus1.jpg") no-repeat center center/cover;
      color: white;
      padding: 120px 20px;
  text-shadow: 2px 2px 5px black;
}
.hero h1 {
  font-size: 50px;
  margin: 10px 0;
}
.hero p {
  font-size: 22px;
  margin-bottom: 20px;
}
.btn {
  background-color: white;
  color: #800000;
  padding: 10px 20px;
  border-radius: 5px;
  text-decoration: none;
  font-size: 20px;
  transition: 0.3s;
}
.btn:hover {
  background-color: #ffd700;
  color: #800000;
}
section {
  padding: 50px;
  max-width: 1000px;
  margin: auto;
  background-color: white;
  margin-top: 20px;
  border-radius: 10px;
  box-shadow: 0px 4px 10px rgba(0,0,0,0.1);
}
h2 {
  color: #800000;
}
.departments, .why-us {
  display: flex;
  justify-content: center;
  flex-wrap: wrap;
}
.box {
  width: 250px;
  padding: 20px;
  background: #f4f4f4;
  margin: 15px;
  border-radius: 10px;
  transition: 0.3s;
}
.box:hover {
  background: #ffd700;
  transform: scale(1.05);
}
.carousel {
  position: relative;
  width: 80%;
  margin: 30px auto;
  overflow: hidden;
```

```
            border: 5px solid #800000;
            border-radius: 10px;
        }
        .slides img {
            width: 100%;
            height: auto;
            display: none;
        }
        .slides img.active {
            display: block;
        }
        footer {
            background-color: #800000;
            color: white;
            padding: 20px 0;
            margin-top: 40px;
        }
    </style>
</head>
<body>
    <header>
        <div class="logo">
            <img src="Devi_Ahilya_Vishwavidyalaya_Logo.png" alt="IET Logo">
            <h1>IET DAVV</h1>
        </div>
        <nav>
            <ul>
                <li><a href="#">Home</a></li>
                <li><a href="#">About</a></li>
                <li><a href="#">Academics</a></li>
                <li><a href="#">Admission</a></li>
                <li><a href="#">Contact</a></li>
            </ul>
        </nav>
    </header>

    <section class="hero">
        <h1>Welcome to IET DAVV</h1>
        <p>Excellence in Engineering & Technology Education</p>
        <a href="#" class="btn">Explore More</a>
    </section>

    <section>
        <h2>About Us</h2>
        <p>Institute of Engineering & Technology (IET) DAVV is a premier engineering institute known for its academic excellence and research-driven approach.</p>
    </section>

    <section class="carousel">
        <div class="slides">
            <img src="placement.jpg" alt="Placement Cell" class="active">
            <img src="campus1.jpg" alt="Campus View">
            <img src="library.jpg" alt="Library">
            <img src="lab.jpg" alt="Laboratory">
            <img src="event.jpg" alt="College Event">
        </div>
    </section>
```

```
  <section>
    <h2>Our Departments</h2>
    <div class="departments">
      <div class="box">Computer Science</div>
      <div class="box">Electronics & Communication</div>
      <div class="box">Mechanical Engineering</div>
      <div class="box">Civil Engineering</div>
      <div class="box">Information Technology</div>
    </div>
  </section>

  <section>
    <h2>Why Choose IET DAVV?</h2>
    <div class="why-us">
      <div class="box">Ranked Among Top 10 Govt. Engineering Colleges</div>
      <div class="box">Excellent Placement Record</div>
      <div class="box">Advanced Research & Innovation</div>
      <div class="box">Experienced Faculty</div>
      <div class="box">State-of-the-Art Infrastructure</div>
    </div>
  </section>

  <footer>
    <p>&copy; 2025 Institute of Engineering & Technology, DAVV Indore</p>
    <p>Contact: iet@davv.ac.in | Phone: +91-731-2462021</p>
  </footer>

  <script>
    document.addEventListener("DOMContentLoaded", function() {
      let ci = 0;
      const slides = document.querySelectorAll(".slides img");

      function showSlide(index) {
        slides.forEach((slide, i) => {
          slide.classList.toggle("active", i === index);
        });
      }

      function nextSlide() {
        ci = (ci + 1) % slides.length;
        showSlide(ci);
      }

      setInterval(nextSlide, 3000);
      showSlide(ci);
    });
  </script>
</body>
</html>
```


IET DAVV - Excellence in Enginee
127.0.0.1:3001/Blog-App/DAVV.html#
Error
ENG
IN
09:35
19-05-2025

IET DAVV

Home About Academics Admission Contact

Welcome to IET DAVV

Excellence in Engineering & Technology Education

Explore More

About Us

Institute of Engineering & Technology (IET) DAVV is a premier engineering institute known for its academic excellence and research-driven approach.

Assignment – 3

Basics.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title> Webpage Styling </title>
  <link rel="stylesheet" href="styles.css">
  <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.0.0-
beta3/css/all.min.css">
</head>
<body>

  <header>
    <nav>
      <button class="dark-mode-toggle" onclick="toggleDarkMode()">Toggle Dark Mode</button>
      <ul>
        <li><a href="#home">Home</a></li>
        <li><a href="#about">About</a></li>
        <li><a href="#services">Services</a></li>
        <li><a href="#contact">Contact</a></li>
      </ul>
    </nav>
  </header>


  <section id="hero">
    <div class="hero-content">
      <h1>Welcome to Our Website</h1>
      <p>Your journey to a better web experience starts here.</p>
      <a href="#about" class="btn">Learn More</a>
    </div>
  </section>


  <section id="about" class="content-section">
    <h2>About Us</h2>
    <p>We are a team of passionate developers creating amazing web experiences.</p>
  </section>

  <section id="services" class="content-section">
    <h2>Our Services</h2>
    <div class="card">
      <h3>Web Development</h3>
      <p>We build responsive and user-friendly websites.</p>
    </div>
    <div class="card">
      <h3>SEO Optimization</h3>
      <p>We help you rank higher on search engines.</p>
    </div>
  </section>


  <footer>
    <div class="social-icons">
      <a href="#"><i class="fab fa-facebook"></i></a>
      <a href="#"><i class="fab fa-twitter"></i></a>
      <a href="#"><i class="fab fa-instagram"></i></a>
      <a href="#"><i class="fab fa-linkedin"></i></a>
    </div>
    <p>&copy; 2023 Swati. All rights reserved.</p>
  </footer>
</body>

<script> function toggleDarkMode() {
  document.body.classList.toggle('dark-mode');
} </script>

</html>
```

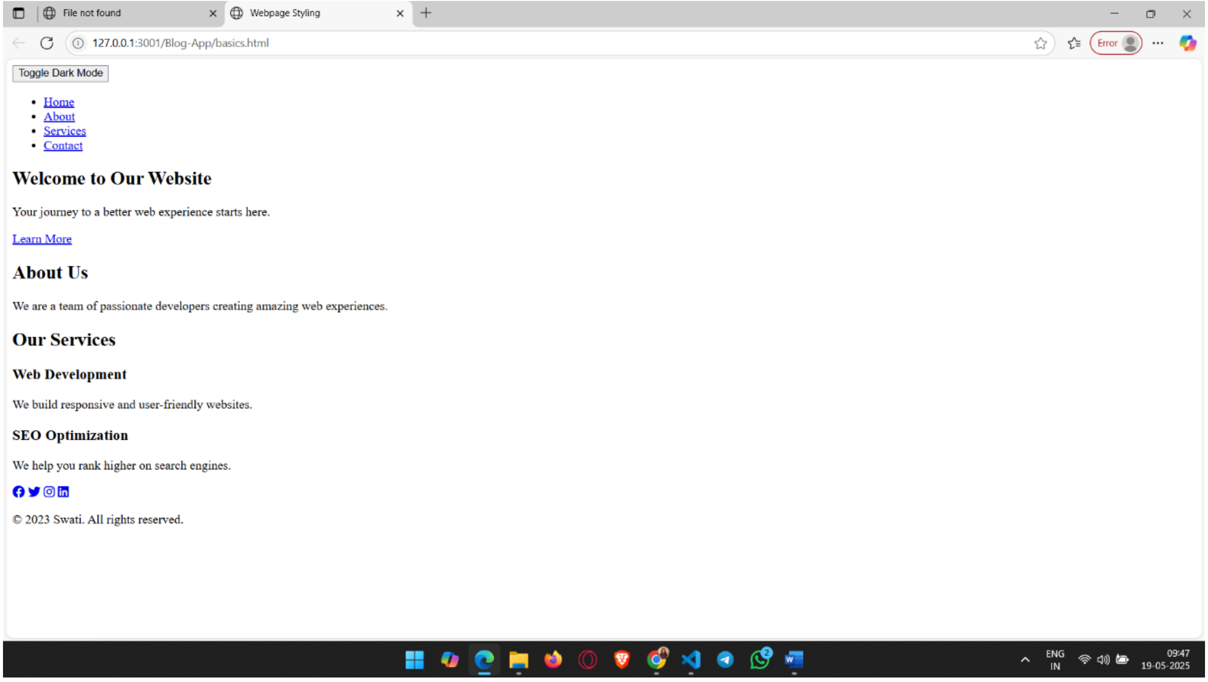
Style.css

```
body {
  font-family: 'Arial', sans-serif;
  margin: 0;
  padding: 0;
  scroll-behavior: smooth;
  background-color: var(--bg-color);
  color: var(--text-color);
  transition: background-color 0.3s, color 0.3s;
}

:root {
  --bg-color: #ffffff;
```

```
    --text-color: #333333;
    --primary-color: #007BFF;
    --hover-color: #0056b3;
}

.dark-mode {
    --bg-color: #333333;
    --text-color: #ffffff;
}


header {
    position: sticky;
    top: 0;
    background-color: var(--primary-color);
    z-index: 1000;
}

nav ul {
    display: flex;
    justify-content: space-around;
    list-style: none;
    padding: 1rem 0;
    margin: 0;
}

nav ul li a {
    color: white;
    text-decoration: none;
    font-weight: bold;
    transition: color 0.3s;
}

nav ul li a:hover {
    color: var(--hover-color);
}

/* Hero Section */
#hero {
    background-image: url('hero-bg.jpg');
    background-size: cover;
    background-position: center;
    height: 100vh;
    display: flex;
    justify-content: center;
    align-items: center;
    text-align: center;
    color: white;
    position: relative;
}

#hero::before {
    content: '';
    position: absolute;
    top: 0;
    left: 0;
    right: 0;
```

```
  bottom: 0;
  background-color: rgba(0, 0, 0, 0.5);
}

.hero-content {
  position: relative;
  z-index: 1;
}

.hero-content h1 {
  font-size: 3rem;
  margin-bottom: 1rem;
}

.hero-content p {
  font-size: 1.5rem;
  margin-bottom: 2rem;
}

.hero-content .btn {
  padding: 0.75rem 1.5rem;
  background-color: var(--primary-color);
  color: white;
  text-decoration: none;
  border-radius: 5px;
  transition: background-color 0.3s;
}

.hero-content .btn:hover {
  background-color: var(--hover-color);
}


.content-section {
  padding: 4rem 2rem;
  text-align: center;
}

.content-section h2 {
  font-size: 2.5rem;
  margin-bottom: 1rem;
}

.content-section p {
  font-size: 1.2rem;
  line-height: 1.6;
}

.card {
  background-color: white;
  padding: 2rem;
  margin: 1rem;
  border-radius: 10px;
  box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);
  transition: transform 0.3s, box-shadow 0.3s;
}
```

```
.card:hover {
  transform: translateY(-10px);
  box-shadow: 0 8px 16px rgba(0, 0, 0, 0.2);
}


footer {
  background-color: var(--primary-color);
  color: white;
  text-align: center;
  padding: 1rem 0;
}

.social-icons {
  margin-bottom: 1rem;
}

.social-icons a {
  color: white;
  margin: 0 0.5rem;
  font-size: 1.5rem;
  transition: color 0.3s;
}

.social-icons a:hover {
  color: var(--hover-color);
}


@keyframes fadeIn {
  from {
    opacity: 0;
  }
  to {
    opacity: 1;
  }
}

body {
  animation: fadeIn 1s ease-in-out;
}

.dark-mode-toggle {
  position: fixed;
  bottom: 20px;
  right: 20px;
  background-color: var(--primary-color);
  color: white;
  border: none;
  padding: 0.5rem 1rem;
  border-radius: 5px;
  cursor: pointer;
  transition: background-color 0.3s;
}

.dark-mode-toggle:hover {
  background-color: var(--hover-color);}
```



Toggle Dark Mode

- Home
- About
- Services
- Contact

Welcome to Our Website

Your journey to a better web experience starts here.

Learn More

About Us

We are a team of passionate developers creating amazing web experiences.

Our Services

Web Development

We build responsive and user-friendly websites.

SEO Optimization

We help you rank higher on search engines.

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Assignment – 4

Index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>JavaScript Assignment</title>
  <link rel="stylesheet" href="styles.css">
</head>
<body>
  <h1>JavaScript Assignment</h1>


  <section id="task1A">
    <h2>1A: Variables, Functions, Conditions, and Loops</h2>
    <label for="weight">Weight (kg):</label>
    <input type="number" id="weight" placeholder="Enter weight">
    <label for="height">Height (cm):</label>
    <input type="number" id="height" placeholder="Enter height">
    <button onclick="calculateBMI()">Calculate BMI</button>
    <p id="bmiResult"></p>
  </section>


  <section id="task1B">
    <h2>1B: Pop-up Boxes</h2>
    <button onclick="showAlert()">Show Alert</button>
    <button onclick="showConfirm()">Show Confirm</button>
    <button onclick="showPrompt()">Show Prompt</button>
    <p id="promptResult"></p>
  </section>
```

```html
<section id="task1C">
  <h2>1C: Event Handling & DOM Manipulation</h2>
  <button onclick="changeText()">Change Text</button>
  <p id="changeableText">This text will change.</p>
  <div id="hoverDiv" onmouseover="hoverEffect(true)" onmouseout="hoverEffect(false)">
    Hover over me!
  </div>
  <ul id="dynamicList">
    <li>Item 1</li>
    <li>Item 2</li>
  </ul>
  <input type="text" id="newItem" placeholder="Add new item">
  <button onclick="addItem()">Add Item</button>
</section>


<section id="task1D">
  <h2>1D: Forms & Validation</h2>
  <form id="registrationForm" onsubmit="validateForm(event)">
    <label for="name">Name:</label>
    <input type="text" id="name" placeholder="Enter name">
    <span id="nameError" class="error"></span><br>

    <label for="email">Email:</label>
    <input type="email" id="email" placeholder="Enter email">
    <span id="emailError" class="error"></span><br>

    <label for="phone">Phone:</label>
    <input type="tel" id="phone" placeholder="Enter phone">
    <span id="phoneError" class="error"></span><br>

    <label for="password">Password:</label>
    <input type="password" id="password" placeholder="Enter password">
    <span id="passwordError" class="error"></span><br>

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


<section id="task1E">
  <h2>1E: JavaScript Objects & AJAX</h2>
  <button onclick="fetchWeather()">Fetch Weather</button>
  <p id="weatherResult"></p>
</section>


<section id="todoList">
  <h2>To-Do List</h2>
  <input type="text" id="todoInput" placeholder="Add a new task">
  <button onclick="addTodo()">Add Task</button>
  <ul id="todoItems"></ul>
</section>
```

```
  <section id="chatbot">
    <h2>Simple Chatbot</h2>
    <div id="chatbox">
      <p>Chatbot: Namaskar! Aaj aapki kaise madad kar sakta hu?</p>
    </div>
    <input type="text" id="chatInput" placeholder="Type your message">
    <button onclick="sendMessage()">Send</button>
  </section>

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

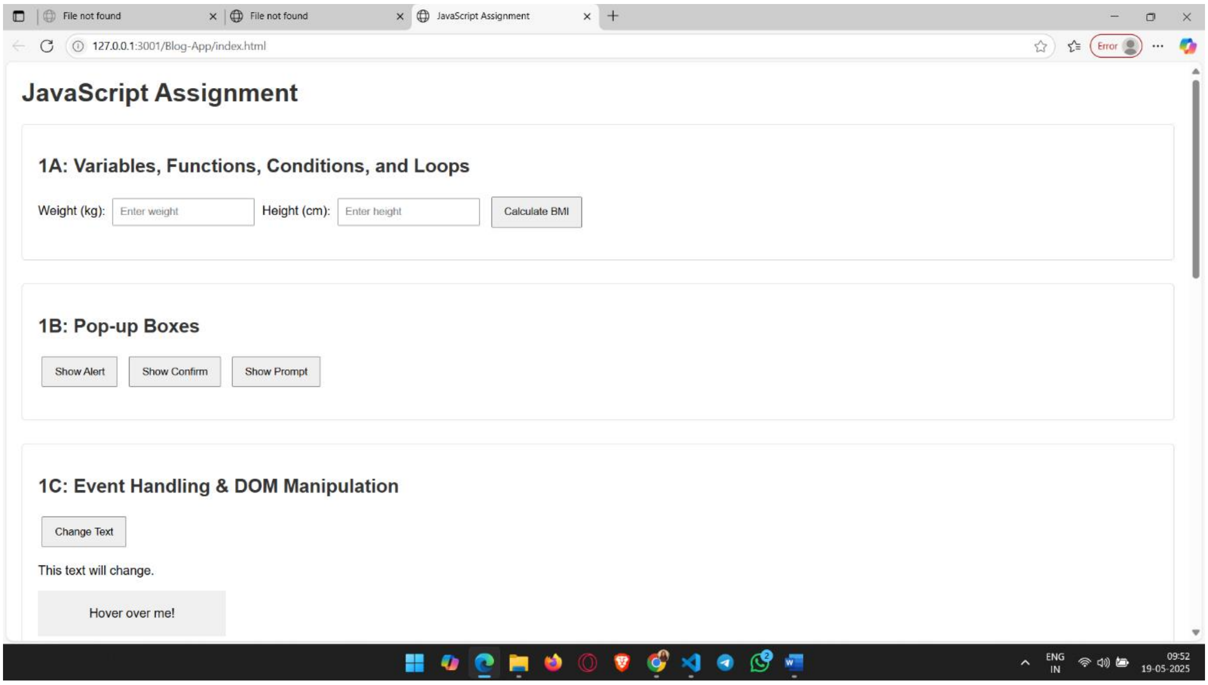
Script.js

```
function calculateBMI() {
  const weight = parseFloat(document.getElementById('weight').value);
  const height = parseFloat(document.getElementById('height').value) / 100;
  if (isNaN(weight) || isNaN(height)) {
    alert("Please enter valid weight and height.");
    return;
  }
  const bmi = (weight / (height * height)).toFixed(2);
  document.getElementById('bmiResult').innerText = `Your BMI is: ${bmi}`;
}


function showAlert() {
  alert("This is an alert box!");
}

function showConfirm() {
  const result = confirm("Are you sure you want to delete this item?");
  if (result) {
    alert("Item deleted.");
  } else {
    alert("Deletion canceled.");
  }
}

function showPrompt() {
  const userInput = prompt("Please enter your name:");
  if (userInput) {
    document.getElementById('promptResult').innerText = `Hello, ${userInput}!`;
  }
}


function changeText() {
  document.getElementById('changeableText').innerText = "Text changed!";
}

function hoverEffect(isHovering) {
  const div = document.getElementById('hoverDiv');
  div.style.backgroundColor = isHovering ? "#ccc" : "#f0f0f0";
}
```

```
function addItem() {
  const newItem = document.getElementById('newItem').value;
  if (newItem) {
    const li = document.createElement('li');
    li.innerText = newItem;
    document.getElementById('dynamicList').appendChild(li);
    document.getElementById('newItem').value = '';
  }
}


function validateForm(event) {
  event.preventDefault();
  const name = document.getElementById('name').value;
  const email = document.getElementById('email').value;
  const phone = document.getElementById('phone').value;
  const password = document.getElementById('password').value;

  let isValid = true;


  if (!name) {
    document.getElementById('nameError').innerText = "Name is required.";
    isValid = false;
  } else {
    document.getElementById('nameError').innerText = "";
  }


  const emailRegex = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;
  if (!emailRegex.test(email)) {
    document.getElementById('emailError').innerText = "Invalid email format.";
    isValid = false;
  } else {
    document.getElementById('emailError').innerText = "";
  }


  const phoneRegex = /^\d{10}$/;
  if (!phoneRegex.test(phone)) {
    document.getElementById('phoneError').innerText = "Phone number must be 10 digits.";
    isValid = false;
  } else {
    document.getElementById('phoneError').innerText = "";
  }

  const passwordRegex = /^(?=.*\d)(?=.*[a-z])(?=.*[A-Z])(?=.*[!@#$%^&*]).{8,}$/;
  if (!passwordRegex.test(password)) {
    document.getElementById('passwordError').innerText = "Password must be at least 8 characters long
and include uppercase, lowercase, numbers, and special characters.";
    isValid = false;
  } else {
    document.getElementById('passwordError').innerText = "";
  }

  if (isValid) {
    alert("Form submitted successfully!");
    }
}


function fetchWeather() {
    const apiKey = 'YOUR_API_KEY';
    const city = 'London';
    const url =
`https://api.openweathermap.org/data/2.5/weather?q=${city}&appid=${apiKey}&units=metric`;

    fetch(url)
        .then(response => response.json())
        .then(data => {
            const weather = data.weather[0].description;
            const temp = data.main.temp;
            document.getElementById('weatherResult').innerText = `Weather in ${city}: ${weather},
Temperature: ${temp}°C`;
        })
        .catch(error => {
            console.error("Error fetching weather data:", error);
        });
}


function addTodo() {
    const todoInput = document.getElementById('todoInput').value;
    if (todoInput) {
        const li = document.createElement('li');
        li.innerText = todoInput;
        li.onclick = function() {
            this.classList.toggle('completed');
        };
        document.getElementById('todoItems').appendChild(li);
        document.getElementById('todoInput').value = '';
    }
}


function sendMessage() {
    const userInput = document.getElementById('chatInput').value;
    if (userInput) {
        const chatbox = document.getElementById('chatbox');
        chatbox.innerHTML += `<p>You: ${userInput}</p>`;
        chatbox.innerHTML += `<p>Chatbot: I received your message: "${userInput}".</p>`;
        document.getElementById('chatInput').value = '';
        chatbox.scrollTop = chatbox.scrollHeight;
    }
}
```

Styles.css

```
body {
    font-family: Arial, sans-serif;
    margin: 20px;
}

h1, h2 {
    color: #333;
}

section {
  margin-bottom: 30px;
  padding: 20px;
  border: 1px solid #ddd;
  border-radius: 5px;
}

button {
  padding: 10px 15px;
  margin: 5px;
  cursor: pointer;
}

input {
  padding: 8px;
  margin: 5px;
}

.error {
  color: red;
  font-size: 0.9em;
}

#hoverDiv {
  width: 200px;
  padding: 20px;
  background-color: #f0f0f0;
  text-align: center;
  margin: 10px 0;
}

#dynamicList {
  list-style-type: none;
  padding: 0;
}

#dynamicList li {
  padding: 5px;
  background-color: #f9f9f9;
  margin: 5px 0;
}

#chatbox {
  height: 100px;
  border: 1px solid #ccc;
  padding: 10px;
  overflow-y: scroll;
  margin-bottom: 10px;
}
```



JavaScript Assignment

1A: Variables, Functions, Conditions, and Loops

1B: Pop-up Boxes

1C: Event Handling & DOM Manipulation

This text will change.

Assignment – 5

Login.html

```
<!DOCTYPE html>
<html>
<head>
  <title>Login Page</title>
</head>
<body>
  <h1>Login</h1>
  <form action="login"  method="post">
    Username: <input type="text"  name="username"><br>
    Password: <input type="password"  name="password"><br>
    <input type="submit"  value="Login">
  </form>
  < % if (request.getParameter("error")  != null) { %>
    <p style="color:red;">Invalid  username  or password!</p>
  < % } %>
</body>
</html>
```

Authentication.java

```
import java.io.IOException;
import javax.servlet.Filter;
import javax.servlet.FilterChain;
import javax.servlet.FilterConfig;
import javax.servlet.ServletException;
import javax.servlet.ServletRequest;
import javax.servlet.ServletResponse;
import javax.servlet.annotation.WebFilter;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;

@WebFilter("/protected/*")
public class AuthenticationFilter implements Filter {

  public void init(FilterConfig fConfig) throws ServletException {

  }

  public void doFilter(ServletRequest request, ServletResponse response, FilterChain chain)
      throws IOException, ServletException {
    HttpServletRequest httpRequest = (HttpServletRequest) request;
    HttpServletResponse httpResponse = (HttpServletResponse) response;
    HttpSession session = httpRequest.getSession(false);

    boolean isLoggedIn = (session != null && session.getAttribute("username") != null);

    if (isLoggedIn) {
      chain.doFilter(request, response);
    } else {
      httpResponse.sendRedirect(httpRequest.getContextPath() + "/login.html");
    }
  }

  public void destroy() {

  }
}
```

Logging.java

```
import java.io.IOException;
import javax.servlet.Filter;
import javax.servlet.FilterChain;
import javax.servlet.FilterConfig;
import javax.servlet.ServletException;
import javax.servlet.ServletRequest;
import javax.servlet.ServletResponse;
import javax.servlet.annotation.WebFilter;
import javax.servlet.http.HttpServletRequest;

@WebFilter("/*")
public class LoggingFilter implements Filter {

  public void init(FilterConfig fConfig) throws ServletException {

  }

  public void doFilter(ServletRequest request, ServletResponse response, FilterChain chain)
      throws IOException, ServletException {
    HttpServletRequest httpRequest = (HttpServletRequest) request;
    String ipAddress = httpRequest.getRemoteAddr();
    String requestURL = httpRequest.getRequestURL().toString();

    System.out.println("IP Address: " + ipAddress + ", Requested URL: " + requestURL);
```

```
        chain.doFilter(request, response);
    }

    public void destroy() {

    }
}
```

LoginServlet.java

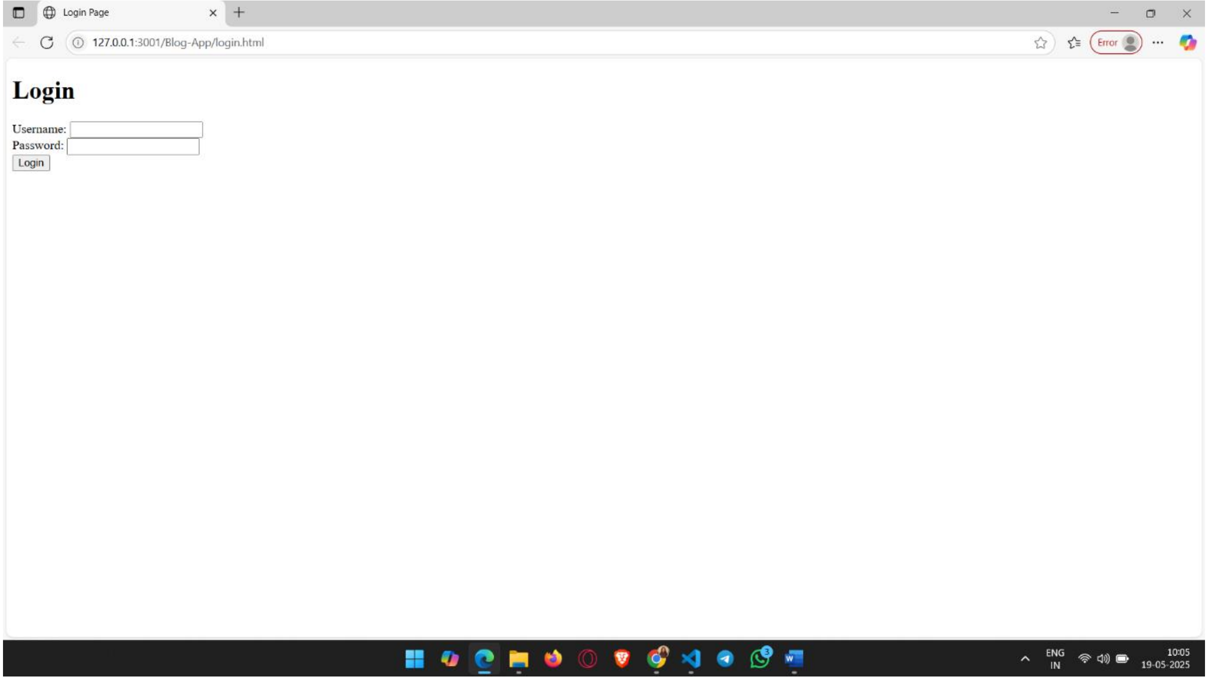
```
import java.io.IOException;
import javax.servlet.RequestDispatcher;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

@WebServlet("/login")
public class LoginServlet extends HttpServlet {
    private static final long serialVersionUID = 1L;

    protected void doPost(HttpServletRequest request, HttpServletResponse response)
            throws ServletException, IOException {
        String username = request.getParameter("username");
        String password = request.getParameter("password");

        if ("admin".equals(username) && "password".equals(password)) {
            RequestDispatcher dispatcher = request.getRequestDispatcher("welcome");
            dispatcher.forward(request, response);
        } else {
            response.sendRedirect("login.html?error=1");
        }
    }
}
```

Servlets.java

```
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

@WebServlet("/welcome")
public class WelcomeServlet extends HttpServlet {
    private static final long serialVersionUID = 1L;

    protected void doGet(HttpServletRequest request, HttpServletResponse response)
            throws ServletException, IOException {
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();
        out.println("<html><body>");
        out.println("<h1>Welcome to our website!</h1>");
        out.println("<p>Your IP Address: " + request.getRemoteAddr() + "</p>");
        out.println("<p>User-Agent: " + request.getHeader("User-Agent") + "</p>");
        out.println("</body></html>");
    }

    protected void doPost(HttpServletRequest request, HttpServletResponse response)
            throws ServletException, IOException {
        String name = request.getParameter("name");
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();
        out.println("<html><body>");
        out.println("<h1>Hello, " + name + "!</h1>");
        out.println("</body></html>");
    }
}
```

sessionManager.java

```
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;

@WebServlet("/session")
public class SessionServlet extends HttpServlet {
    private static final long serialVersionUID = 1L;

    protected void doGet(HttpServletRequest request, HttpServletResponse response)
            throws ServletException, IOException {
        HttpSession session = request.getSession();
        String username = (String) session.getAttribute("username");

        response.setContentType("text/html");
        PrintWriter out = response.getWriter();
        out.println("<html><body>");

        if (username != null) {
            out.println("<h1>Welcome back, " + username + "!</h1>");
        } else {
            out.println("<h1>Please log in.</h1>");
        }

        out.println("</body></html>");
    }

    protected void doPost(HttpServletRequest request, HttpServletResponse response)
            throws ServletException, IOException {
        String username = request.getParameter("username");
        HttpSession session = request.getSession();
        session.setAttribute("username", username);

        response.sendRedirect("session");
    }
}
```



Login

Username:

Password: