LAB ASSIGNMENT – 14.3

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BATCH: 01

COURSE: AI ASSISTED CODING

TASK 1:

PROMPT:

Create a simple HTML homepage for a 'Student Info Portal'. The page should include a header with the title, a navigation menu with links (like Home, About, Courses, Contact), and a footer. Make sure the layout is clean and well-structured.

CODE:

```
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from IPython.display import HTML
    html_content = """
    <!DOCTYPE html>
    <html>
    <head>
    <title>Student Info Portal</title>
    <style>
     body {
       font-family: Arial, sans-serif;
       margin: 0;
       padding: 0;
      header {
        background-color: #f2f2f2;
        padding: 10px;
        text-align: center;
      nav {
        background-color: #e0e0e0;
        padding: 10px;
       text-align: center;
      nav a {
       margin: 0 15px;
        text-decoration: none;
       color: #333;
      footer {
        background-color: #f2f2f2;
        background-color: #f2f2f2;
                                                                                        ↑ ↓ ७ 🗓 :
        padding: 10px;
        text-align: center;
        position: fixed;
        bottom: 0;
        width: 100%;
    </style>
    </head>
    <body>
    <header>
      <h1>Student Info Portal</h1>
    </header>
    <nav>
      <a href="#">Home</a>
      <a href="#">About</a>
      <a href="#">Courses</a>
      <a href="#">Contact</a>
    </nav>
    <main>
     <!-- Content goes here -->
    </main>
    <footer>
      %copy; 2023 Student Info Portal
    </footer>
    </body>
```

TASK 2:

PROMPT:

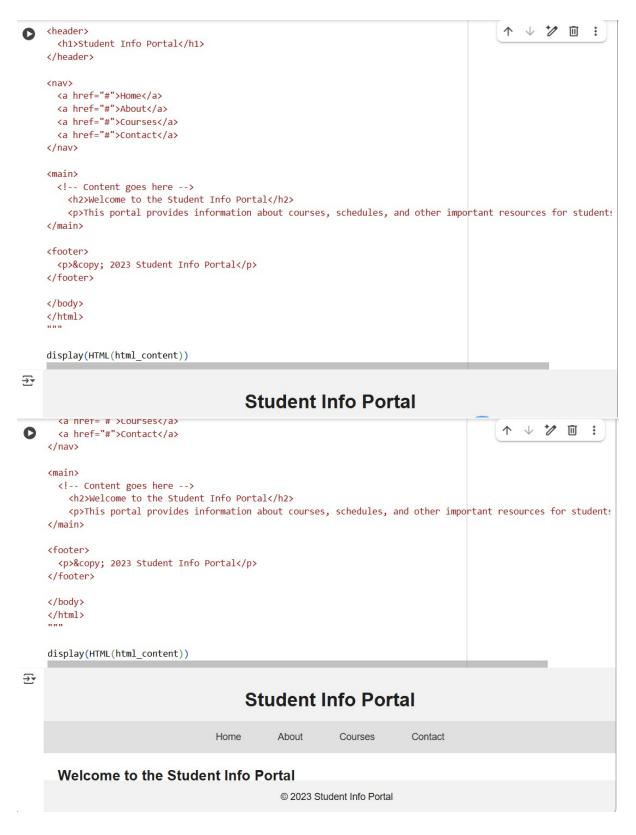
Add CSS styling to the 'Student Info Portal' homepage created earlier. Include the following features: • A responsive navigation bar that looks good on both desktop and mobile. • A centered content section for the main text or information. • A footer with a light gray background and centered text. Make sure the design is clean and visually appealing."

CODE:

```
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from IPython.display import HTML
    html_content = """
    <!DOCTYPE html>
    <html>
    <head>
    <title>Student Info Portal</title>
    <style>
      body {
        font-family: Arial, sans-serif;
        margin: 0;
        padding: 0;
      header {
        background-color: #f2f2f2;
        padding: 10px;
        text-align: center;
      }
      nav {
        background-color: #e0e0e0;
        padding: 10px;
        text-align: center;
      nav a {
        margin: 0 15px;
        text-decoration: none;
        color: #333;
        display: inline-block; /* Make links behave like blocks for padding */
        padding: 5px 10px; /* Add padding for better touch targets */
```

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```
/* Responsive navigation */
  @media (max-width: 600px) {
    nav {
     display: flex; /* Use flexbox for alignment */
      flex-direction: column; /* Stack links vertically on small screens */
      align-items: center; /* Center align items */
    nav a {
     margin: 5px 0; /* Adjust margin for vertical stacking */
  }
  main {
      max-width: 800px; /* Set a maximum width for content */
     margin: 20px auto; /* Center the main content with auto margins */ \,
      padding: 0 20px; /* Add some padding on the sides */
  }
  footer {
    background-color: #f2f2f2;
    padding: 10px;
    text-align: center;
    position: fixed;
    bottom: 0;
    width: 100%;
</style>
</head>
<body>
```



TASK 3:

PROMPT:

Generate a JavaScript script that validates a simple login form. The script should check that both the username and password fields are not empty. If any field is empty, display an alert message to the user. Otherwise, allow the form to be submitted

CODE:



Now, here is the JavaScript code to validate the form. This script will check if the username and password fields are empty when the form is submitted.

```
[7]
          from IPython.display import HTML
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          js_script = """
          document.getElementById('loginForm').addEventListener('submit', function(event) {
            const username = document.getElementById('username').value;
            const password = document.getElementById('password').value;
            if (username === '' || password === '') {
              alert('Please enter both username and password.');
              event.preventDefault(); // Prevent form submission
            } else {
              // Form is valid, you can proceed with submission
              alert('Form submitted successfully!'); // For demonstration
          });
          </script>
          display(HTML(js_script))
```

TASK 4:

PROMPT:

Generate a simple Flask web application that serves the login HTML form (from Task #3). When the user submits the form with a valid username and password, display a new page that prints 'Welcome, [username]'. Make sure to include both the HTML form and Flask backend code

CODE:

```
from flask import Flask, request, render_template_string
     app = Flask(__name__)
     html_form = """
      <form id="loginForm" action="/login" method="post">
         <label for="username">Username:</label>
         <input type="text" id="username" name="username">
        </div>
        <div>
         <label for="password">Password:</label>
         <input type="password" id="password" name="password">
        </div>
        <button type="submit">Login</button>
      </form>
     @app.route('/')
     def login():
       return render_template_string(html_form)
      @app.route('/login', methods=['POST'])
      def handle login():
         username = request.form.get('username')
         password = request.form.get('password')
         # Simple validation
       Torminal
ablaa
      @app.route('/')
      def login():
        return render_template_string(html_form)
      @app.route('/login', methods=['POST'])
      def handle_login():
         username = request.form.get('username')
          password = request.form.get('password')
          # Simple validation
          if username == 'admin' and password == 'password123':
             return f'<h1>Welcome, {username}!</h1>'
              return '<h1>Invalid username or password</h1>'
      if __name__ == '__main__ ':
```

INFO:werkzeug:WARNING: This is a development server. Do not use it in a production deployment. Use a producti

app.run(debug=True)

* Debug mode: on

* Serving Flask app '__main__'

* Running on http://127.0.0.1:5000
INFO:werkzeug:Press Ctrl-color: blue;

INFO:werkzeug: * Restarting with watchdog (inotify)