Course Code	**:**	**MCSL-016**
Course Title	**:**	**Internet Concepts and Web Design**
Assignment Number	**:**	**BCA(IV)/L-016/Assignment/2026-27**
Maximum Marks	**:**	**100**
Weightage	**:**	**25%**
Last Dates for Submission	**:**	**31st October, 2026 (For July 2026 Session)**
	:	**30th April, 2027 (For January 2027 Session)**

There are two questions in this assignment carrying a total of 80 marks. Rest 20 marks are for viva voce. You may use illustrations and diagrams to enhance the explanations. Please go through the guidelines regarding assignments given in the Programme Guide for the format of presentation. Submit the screenshots along with the coding and documentation.

Q1: **(70 Marks)**

A college library provides information about its services through a website. The website displays a list of available books in lexicographic order of book title. The list includes the book title, author, subject, and whether the book is issued or available in the library. In addition, the website provides two forms: the first allows students to become library members, and the second allows students to submit suggestions about the library.

Design and create a website for the library with four web pages, namely, Home, Book_List, Member_Registration, and Suggestion, having the following features:

For consistency, every webpage of the proposed website should consist of the following three basic divisions:

Header – This division should be the same for all four web pages. It should display the name and logo of the library. This header division should have a different background colour.

Links – This division should be the same for every web page. It should contain links to all the web pages, namely Home, Book_List, Member_Registration, and Suggestions.

Content – The four web pages should differ only in this division. This division should display the page-specific information described below:

- **Home** page should display a welcome message for visitors to the library website.
- **Book_List** page should display information about all the books using a table.
- **Member_Registration** page should contain a form with the following fields:
  - Student Name,
  - Course,
  - Contact Number, and

- SUBMIT button.

Write JavaScript code to verify that all the fields are filled before the form is submitted. The validation should be performed when the SUBMIT button is clicked.

- **Suggestions** page should contain a form with two input fields:
  - Student Name and
  - a text area for entering suggestions.

  This form should also contain a SUBMIT button.

You must submit the hard copy of the HTML code of every web page and screenshots of the display of the web pages in a browser window. You should demonstrate these webpages at the time of the viva

Q2: **(10 Marks)**

What are the different ways of using a style sheet with an HTML web page? Explain with the help of an example of each.

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Answer

The website is a four-page front-end demonstration for Greenfield College Library. Each page uses the same dark-coloured header with a library-book logo, the same four navigation links, and a page-specific main content section. The shared CSS file ensures consistent styling; the JavaScript file handles form submission. The book catalog contains eleven illustrative records, arranged lexicographically by title, with an author, subject and availability status for each record.

The registration form checks Student Name, Course and Contact Number on the SUBMIT click. Blank entries are rejected, and the example also checks that the number contains ten digits. The Suggestions form accepts Student Name and a suggestion text area. As the task does not specify a server or database, successful demo entries are stored in the current browser through localStorage; no claim is made that they have been sent to a college library.

The source files included with this solution are index.html, book_list.html, member_registration.html, suggestions.html, styles.css, app.js and logo.svg. To demonstrate them in a normal browser, place them in the same folder and open index.html. Navigation links use relative file names, so the pages work without an internet connection.

Browser display screenshots