

FRANCIS XAVIER ENGINEERING COLLEGE, TIRUNELVELI
CENTRE FOR TRAINING AND SKILLS
WEB INTERFACE DEVELOPMENT
ACADEMIC YEAR 2024-2025 (EVEN)

DAY 1

Instructions

- Watch the videos on the websites provided. These videos will help you understand the core concepts required to complete the exercises effectively.
- Complete at least 12 questions from the list below. You must choose at least 3 questions from each of the following categories:
 - HTML Basic Exercises
 - HTML Text Formatting Exercises
 - HTML Link Exercises
 - HTML Image Exercises

You are allowed to choose any combination of exercises from the categories, but make sure to balance your selection from all topics

HTML Basic Exercises

- Create a basic structure for a news portal homepage. Include a header with the site title, a navigation menu with links, a main section with 3 separate news articles, an aside for trending topics, and a footer. Use only semantic tags like `<header>`, `<nav>`, `<main>`, `<article>`, `<aside>`, and `<footer>`.
- Create an HTML form for student admission. The form should collect full name, date of birth, gender (radio buttons), course selection (checkboxes), and email. Group inputs using `<fieldset>` and `<legend>`, and use `<label>` for each input. Use only HTML tags to complete this task.
- Design a weekly class timetable using `<table>`, `<thead>`, `<tbody>`, and `<caption>`. Include rows for each period and columns for Monday to Friday. Make sure each row and column is clearly labeled for accessibility.
- Embed an image of a product in an HTML page such that it remains within the layout boundaries on all screen sizes. Use the `` tag and relevant attributes to ensure responsiveness. Avoid using inline CSS or external stylesheets.
- Create a horizontal navigation menu using semantic HTML elements. Use the `<nav>` tag to group navigation links such as Home, About, Services, and Contact. Represent the links as an unordered list.
- Given a layout built using `<div>` tags, redesign it using semantic elements. Include a blog post layout with an article, an author bio section, related posts in an `<aside>`, and a page footer. Use tags like `<article>`, `<section>`, `<aside>`, and `<footer>`.
- Create a contact form using HTML5. The form should include fields for full name, email (validated automatically), and a message box. Include a submit button. Use the

appropriate input types and required attributes to ensure validation without JavaScript.

- Create the <head> section of an HTML document. Include <title>, <meta charset>, <meta name="viewport">, a link to an external CSS file, and a favicon. Explain the purpose of each tag used in the head section.
- Design a recipe page in HTML. Use an unordered list to display ingredients. Use an ordered list for the cooking steps. At least one step should include a nested ordered list to show sub-steps. Use only HTML list tags.
- Create a sample HTML page that contains: a text link to another page using <a>, a clickable image link, a submit button using <input type="submit">, and a regular button using <button>. Use tags appropriately for each purpose and explain the reason behind the choice of each tag.

HTML text formatting exercises

- Print the squares of the numbers 1 - 20. Each number should be on a separate line, next to it the number 2 superscripted, an equal sign and the result. (Example: 10² = 100)
- Prints 10 names with a line break between each name. The list should be alphabetized, and to do this place a subscripted number next to each name based on where it will go in the alphabetized list. (Example: Alan₁). Print first, the unalphabetized list with a subscript number next to each name, then the alphabetized list. Both lists should have an <h1> level heading.
- Print two paragraphs that are both indented using the command.
- Print two lists with any information you want. One list should be an ordered list, the other list should be an unordered list.
- Prints an h1 level heading followed by a horizontal line whose width is 100%. Below the horizontal line print a paragraph relating to the text in the heading.
- Print some preformatted text of your choosing. (hint: use the <pre> tag)
- Print a long quote and a short quote. Cite the author of each quote.
- Print some deleted and inserted text of your choosing.
- Print a definition list with 5 items.
- Print two addresses in the same format used on the front of envelopes (senders address in top left corner, receivers address in the center).
- Print ten acronyms and abbreviations of your choosing, each separated by two lines. Specify the data that the abbreviations and acronyms represent.

HTML link exercises

- Create some links to various search engines (google, yahoo, altavista, lycos, etc).
- Create links to five different pages on five different websites that should all open

in a new window.

- Create a page with a link at the top of it that when clicked will jump all the way to the bottom of the page.
- Create a page with a link at the bottom of it that when clicked will jump all the way to the top of the page.
- Create a page with a link at the top of it that when clicked will jump all the way to the bottom of the page. At the bottom of the page there should be a link to jump back to the top of the page.

HTML image exercises

- Display five different images. Skip two lines between each image. Each image should have a title.
- Display an image that has a border of size 2, a width of 200, and a height of 200.
- Display an image that when clicked will link to a search engine of your choice (should be opened in a new window).
- Display an image that when clicked will link to itself and will display the image in the browser by itself.