HTML, CSS and JavaScript Exercises

HTML Exercises

1. Create a Webpage with Headlines

Create a webpage that includes an <h1>, <h3>, and <h6> headline. Use them to display a topic and its subtopics.

2. Add a Paragraph and a Div

Add a paragraph describing your favorite hobby and a <div> explaining why you enjoy it.

3. Use a Span for Emphasis

Write a sentence about your favorite food and use a to bold the name of the food.

4. Create a Bullet and Numbered List

Make a webpage with a bullet list of three of your favorite movies and a numbered list of three of your favorite books.

5. Insert a Horizontal Line

Add a horizontal line <hr> to separate two sections of your webpage. Style one of the lines to be red and thicker.

6. Build a Simple Table

Create a table with two rows and two columns. Fill it with the names of flowers and their sizes (e.g., Roses - Small, Tulips - Large).

7. Add a Link to Another Page

Add a link <a> to your webpage that redirects to a page about your favorite animal.

8. Display an Image with a Caption

Insert an image of a landscape and add a caption <figcaption> describing it.

9. Add a Marquee

Create a scrolling marquee <marquee> on your webpage that displays the text "Welcome to my website!"

10. **Embed a Video**

Add a video <iframe> to your webpage about your favorite topic. Include a caption <figcaption> describing the video.

CSS Exercises

11. Change the Background Color

Use CSS to change the background color of your webpage to light blue.

12. **Style the Headlines**

Change the color of all <h1> headlines to yellow and make them bold.

13. **Center Align Text**

Use CSS to center-align a paragraph on your webpage.

14. Use Classes and IDs

Create three paragraphs about different types of plants. Use a class to style them with the same color and an ID to give one of them a unique font size.

15. Add Inline Styles

Highlight a word in a paragraph using an inline style to change its background color to yellow.

16. **Change Text Color**

Use CSS to change the text color of all paragraphs to green.

17. **Adjust Font Size**

Use CSS to set the font size of a paragraph to 1.5em.

JavaScript Exercises

18. **Display an Alert on Page Load**

Write a script that shows an alert box with the message "Welcome to my webpage!" when the page loads.

19. Change Background Color with a Button

Add a button to your webpage that changes the background color to red when clicked.

20. **Use the Prompt Method**

Ask the user for their favorite color using prompt() and display their response on the webpage.

21. Create a Timer Function

Add a button that shows an alert saying "Time's up!" after 5 seconds when clicked.

22. Use a For Loop

Write a script that uses a for loop to display the numbers 1 to 5 on the webpage.

23. Use an ID to Style an Element

Use JavaScript to change the color and font size of a link <a> with a specific ID.

24. **Mouseover Event**

Add a button that changes its text color to blue when the mouse pointer hovers over it.

25. **Use a While Loop**

Write a script that uses a while loop to display the message "Learning is fun!" five times on the webpage.

Web Page Exercise 1: "Flower Showcase"

Goal: Build a webpage that introduces different types of flowers.

Features to include:

- Headings: <h1>Beautiful Flowers</h1>, <h3>My Top Picks</h3>, <h6>Explore Nature</h6>
- · Paragraph about why you love flowers
- Image with <figcaption> for each flower (e.g., rose, tulip, lily)
- Table with flower names and size (reuse Exercise 6)
- list of flowers you want to plant
- Use a <div> to group content and style with CSS

Web Page Exercise 2: "Dream Cars Garage"

Goal: Introduce your three favorite car models.

Features to include:

- <h1>My Dream Garage</h1>
- Add 3 car images with captions
- Create a list of car brands and an list of top features
- Use JavaScript prompt to ask: "What's your favorite car brand?"
- Insert a styled <hr>
 to separate luxury from sports cars
- Add a button that changes the background color to black for "Garage Mode"

Website Exercise 1: "My Hobby Zone" (3 Pages) Structure:

- index.html Homepage with intro to your hobbies
- hobbies.html List of hobbies with images, paragraphs, and styled sections
- gallery.html A photo gallery using and <figcaption>

Bonus: Use navigation links to connect pages!

Website Exercise 2: "Nature Explorer" (5 Pages) Pages:

- 1. Home Welcome + background color customization
- 2. Flowers Use Exercise 6-style table
- 3. Animals Add image, caption, and link to a fun fact video
- 4. Landscapes Embed a video and center-aligned text
- 5. About Your journey as a nature lover with a scrolling marquee and contact form

Tech Highlights:

- Use <nav> on each page
- Style with external CSS
- JavaScript prompt asking for user's favorite flower or animal

Web App Exercise 1: "Daily Quote Launcher"

What it does: Displays a motivational quote when you open it.

How to build:

- Create a simple HTML page with <h1>Your Daily Quote</h1> and a quote inside
- 2. Add CSS to center-align and style the background
- 3. JavaScript window.onload to show an alert with a random quote

Add to phone's start screen:

- Android/Samsung (Chrome): Open → Tap 3-dot menu → Add to Home screen
- **iPhone (Safari):** Tap share icon → *Add to Home Screen*

Web App Exercise 2: "My Color Picker"

What it does: Lets you choose a color and updates the background to match. **Steps:**

- 1. HTML: Add <input type="color"> and a <button> labeled "Set Background"
- 2. CSS: Add smooth transitions for background color
- 3. JavaScript: On button click, change document.body.style.backgroundColor

To save as app:

 Same steps as above, and be sure to use a responsive layout so it looks good on any screen