

### Experiment 04: Create an external CSS file and style your webpage elements (background color, text color, fonts, margins, padding).

**Learning Objective:** Student should be able to understand the role of CSS in web development by creating an external stylesheet, linking it to the existing HTML files, and applying fundamental CSS properties like background-color, color, font-family, margin, and padding to create a consistent visual theme.

**Tools:** Notepad, Google Chrome

#### **Theory:**

CSS (Cascading Style Sheets) is the language used to control the visual presentation of an HTML document. While HTML defines the **structure and content** of a page, CSS defines its **style and layout**. This separation of concerns is a core principle of modern web development.

There are three ways to apply CSS:

1. **Inline CSS:** Using the style attribute directly on an HTML element. (e.g., <p style="color: blue;">). Good for quick, single-element styling but bad for maintenance.
2. **Internal CSS:** Placing CSS rules within a <style> tag in the <head> section of an HTML file. Affects only that single page.
3. **External CSS:** Placing all CSS rules in a separate .css file. This file is then linked to multiple HTML pages. This is the **best practice** because it allows you to change the look of an entire website by editing just one file.

The basic syntax of a CSS rule is: selector { property: value; }

- **Selector:** Targets the HTML element(s) you want to style (e.g., h1, p, header).
- **Property:** The visual characteristic you want to change (e.g., font-size, background-color).
- **Value:** The new setting for that property (e.g., 16px, #333).

The **Box Model** is a key concept. Every HTML element can be seen as a box with four layers: the **content** itself, **padding** (space inside the border), the **border**, and the **margin** (space outside the border).

## Result and Discussion:

**GadgetGalaxy**

Home | Products | Cart | Checkout

**Your Shopping Cart**

Product Image	Product Name	Price	Quantity	Subtotal
	Aura T-800 Headphones	₹14,999	1	₹14,999
	Chrono-Pulse Smartwatch	₹19,999	1	₹19,999

Total: ₹34,998

© 2025 GadgetGalaxy. A Project by M.E. Students, Mumbai.

Webpage displaying a total of the added products in the cart with CSS.

**GadgetGalaxy**

Home | Products | Cart | Checkout

**Your Shopping Cart**

Product Image	Product Name	Price	Qua
	Aura T-800 Headphones	₹14,999	1
	Chrono-Pulse Smartwatch	₹19,999	1

Total: ₹34,998

© 2025 GadgetGalaxy. A Project by M.E. Students, Mumbai.

**GadgetGalaxy**

Home | Products | Cart | Checkout

**Featured Products**

Check out our best-selling gadgets of the week!

**Shop by Category**

Find the perfect tech for your needs.

- Headphones
- Smartwatches
- Keyboards
- Drones

© 2025 GadgetGalaxy. A Project by M.E. Students, Mumbai.

Webpage displaying a two different pages in frames in a single webpage with CSS.

**Learning Outcomes:** The student should have the ability to create and link an external CSS stylesheet and apply basic CSS properties to control the typography, color, and spacing of webpage elements, thereby separating content structure from its visual presentation.

**Course Outcomes:** Upon completion of the course students will be able to analyze and apply fundamental client-side web technologies. Also, students will be able to design and develop user interfaces by applying styling rules for a consistent and professional look.

**Conclusion:**

This experiment successfully demonstrated the fundamental principles of Cascading Style Sheets. By externalizing our styles into a “style.css” file, we have created a maintainable and scalable design foundation for the “GadgetGalaxy” website. The site has been visually transformed from a plain HTML document into the beginnings of a well-designed web application.

For Faculty Use

Correction Parameters	Formative Assessment [40%]	Timely completion of Practical [40%]	Attendance / Learning Attitude [20%]	
Marks Obtained				

