Working with SASS

DIY - 11

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Problem Statement:

In this assignment, you will explore the essentials and advanced features of Sass (Syntactically Awesome Style Sheets). Starting with the basics, such as installation, usage of variables, and operators, you will progress to more complex aspects like nesting, mixins, parameters, and functions. Your task involves creating Sass styles for a dynamic web application, applying both fundamental and advanced concepts to produce clean, maintainable CSS, and enhancing the styling of a simple webpage.

Assignment Instructions:

- **Task 1:** *Introduction to Sass:*

  Mention at least two advantages of using Sass.

- **Task 2:** *Installing Sass:*

  Provide step-by-step instructions for installing Sass on your computer.

  You can choose your preferred method (e.g., CLI, GUI tools).

- **Task 3:** *Using Variables in Sass:*

  Create a Sass file (style.scss) that defines variables for common colors used in web design. Use these variables to style a simple HTML page containing a header, a paragraph, and a button.

- **Task 4:** *Exploring Operators in Sass:*

  Explain how these operators can be used to perform calculations within Sass.

- **Task 5: Nesting in Sass**:

  Create a new Sass file (styles.scss) that mimics the structure of any website.

- **Task 6: Mixins in Sass :**

  Write a Sass mixin that generates a box-shadow for a given element.

- **Task 7: Parameters in Sass**:

  Apply the updated mixin to style another set of cards with varying parameters, including some without specified values to test the default behaviour.

- **Task 8: Functions in Sass**:

  Create a Sass function that calculates the contrast ratio between two colors based on the WCAG (Web Content Accessibility Guidelines).