

Practical No 4

Aim: Write a Java program to implement website using Html and

CSS

Resources Required:

- Java Development Kit (JDK)
- Text Editor (e.g., Notepad++) or IDE (e.g., Eclipse, IntelliJ IDEA, NetBeans)
- Command-line terminal or Java compiler

Theory:

Web development is broadly divided into two parts:

- **Front-end (client-side)** → What the user sees and interacts with (HTML, CSS, JavaScript).
- **Back-end (server-side)** → What happens behind the scenes (Java, PHP, Python, databases, etc.).

HTML (HyperText Markup Language) :

HTML is the backbone of every website. It defines the structure and layout of a webpage by using different tags and elements.

Examples:

<h1> to <h6> for headings
<p> for paragraphs
<a> for hyperlinks
 or for lists
<div> and <section> for grouping content

HTML is not a programming language; it is a **markup language** that tells the browser how to display content.

CSS (Cascading Style Sheets) :

CSS is used to style the HTML structure.

- It controls how the webpage looks: fonts, colors, backgrounds, spacing, borders, and layout.
- CSS follows the concept of **separation of concerns** → HTML defines structure, CSS defines style.

CSS can be applied in three ways:

1. **Inline CSS** – inside an element tag
2. **Internal CSS** – inside <style> in the head section
3. **External CSS** – stored in a separate .css file and linked with <link>
CSS makes the website attractive, user-friendly, and responsive (adjustable on different devices).

HTML + CSS Together:

When HTML and CSS are combined, we get a complete and styled webpage. For example:

HTML defines a header with the tag <header>.

CSS styles it by giving background color, text alignment, and padding.

This separation makes websites easier to design and maintain.

Source Code:

```
<!DOCTYPE html>
<html>
<head>
<title>My Simple Website</title>
```

```
<style>
body {
  font-family: Arial, sans-serif;
  margin: 0;
  padding: 0;
  background-color: #f4f6f9;
  color: #333;
}
header {
  background-color: #4CAF50;
  color: white;
  padding: 20px;
  text-align: center;
}
main {
  padding: 20px;
  max-width: 800px;
  margin: auto;
}
h1, h2 {
  color: #4CAF50;
}
a {
  color: #4CAF50;
  text-decoration: none;
}
a:hover {
  text-decoration: underline;
}
footer {
  text-align: center;
  background: #333;
  color: white;
  padding: 10px;
  margin-top: 20px;
}
ul {
  list-style-type: square;
  padding-left: 20px;
```

```

    }
</style>
</head>
<body>
  <header>
    <h1>Welcome to My Website</h1>
    <p>This is a very simple website made with HTML + CSS</p>
  </header>

  <main>
    <h2>About</h2>
    <p>I am learning HTML and CSS. This is my first styled web page.</p>

    <h2>Links</h2>
    <ul>
      <li><a href="https://www.google.com">Go to Google</a></li>
      <li><a href="https://www.wikipedia.org">Go to Wikipedia</a></li>
    </ul>

    <h2>Contact</h2>
    <p>You can email me at <a href="mailto:example@example.com">example@example.com</a></p>
  </main>

  <footer>
    <p>&copy; 2025 My Simple Website</p>
  </footer>
</body>
</html>

```

Output:

Conclusion:

This Java program successfully demonstrates the implementation of website using HTML and CSS.