

edureka!
a Veranda Enterprise



Full Stack Web Development Program

Activate Windows
Go to Settings to activate Windows.

edureka!
a Veranda Enterprise

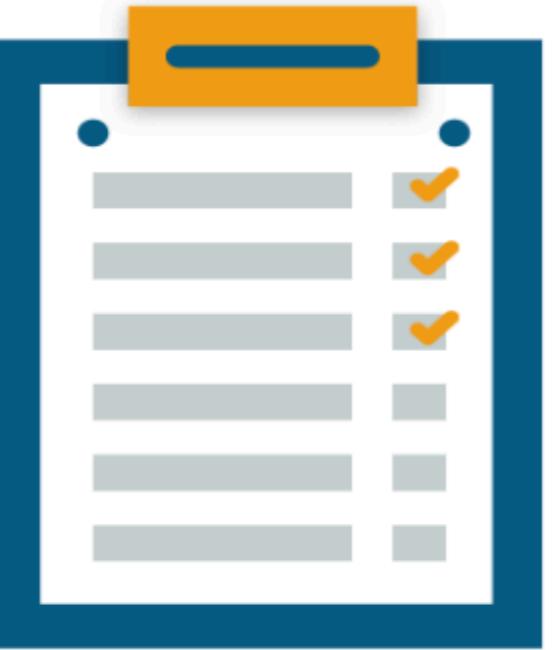


Day 7 - Introduction to CSS

Activate Windows
Go to Settings to activate Windows.

Titles

- Introduction to CSS
- Advantages of CSS
- Adding CSS to an HTML page
- Inline CSS
- Internal CSS
- External CSS
- Selectors in CSS
- Element Name Selector
- Element ID Selector
- Element Class Selector
- Universal Selector
- Grouping Selector



Activate Windows
Go to Settings to activate Windows.

Learning Objectives

By the end of this module, you will be able to:

- Gain the knowledge and skills necessary to style and format HTML content using CSS
- Understand the advantages of using CSS
- Use various types of selectors to target and apply styles to specific HTML elements



Activate Windows
Go to Settings to activate Windows.

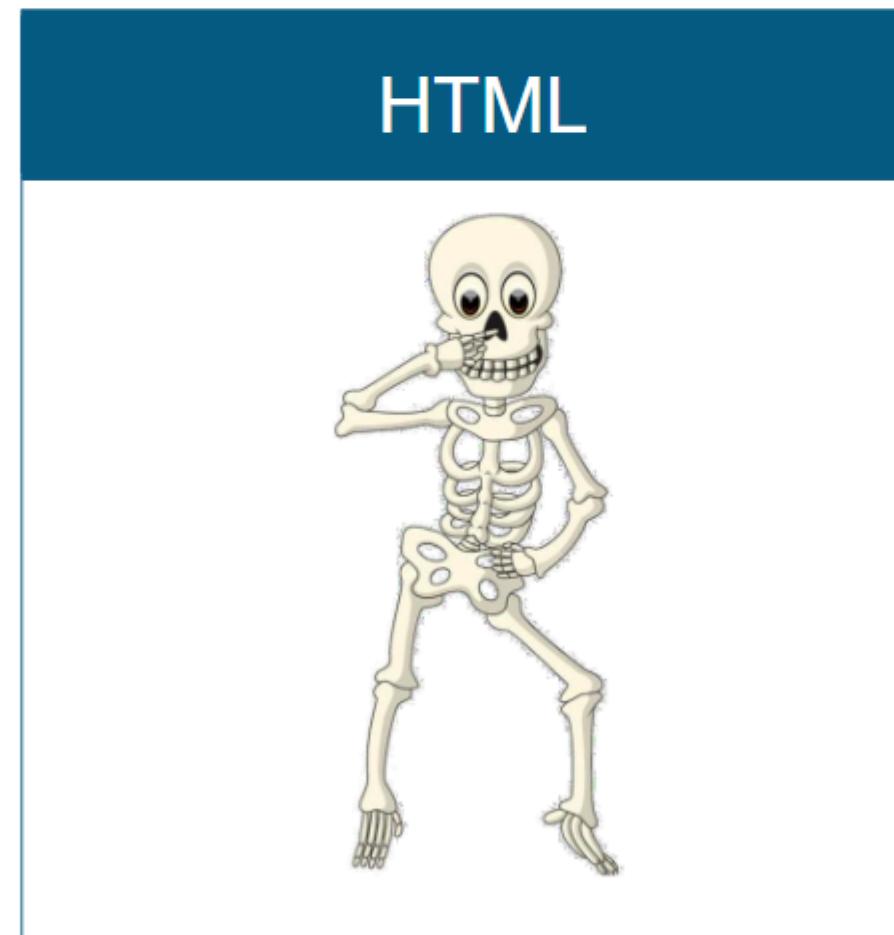


Cascading Style Sheets Way to Make Webpage Appealing

Activate Windows
Go to Settings to activate Windows.

Introduction to CSS

- CSS is used to provide style for the HTML Elements.
- CSS makes the web page look effective, and attractive to use.
- It is specified by the `<style>` and `</style>` tags, or it can be specified with an extension of `.css`.



Activate Windows
Go to Settings to activate Windows.

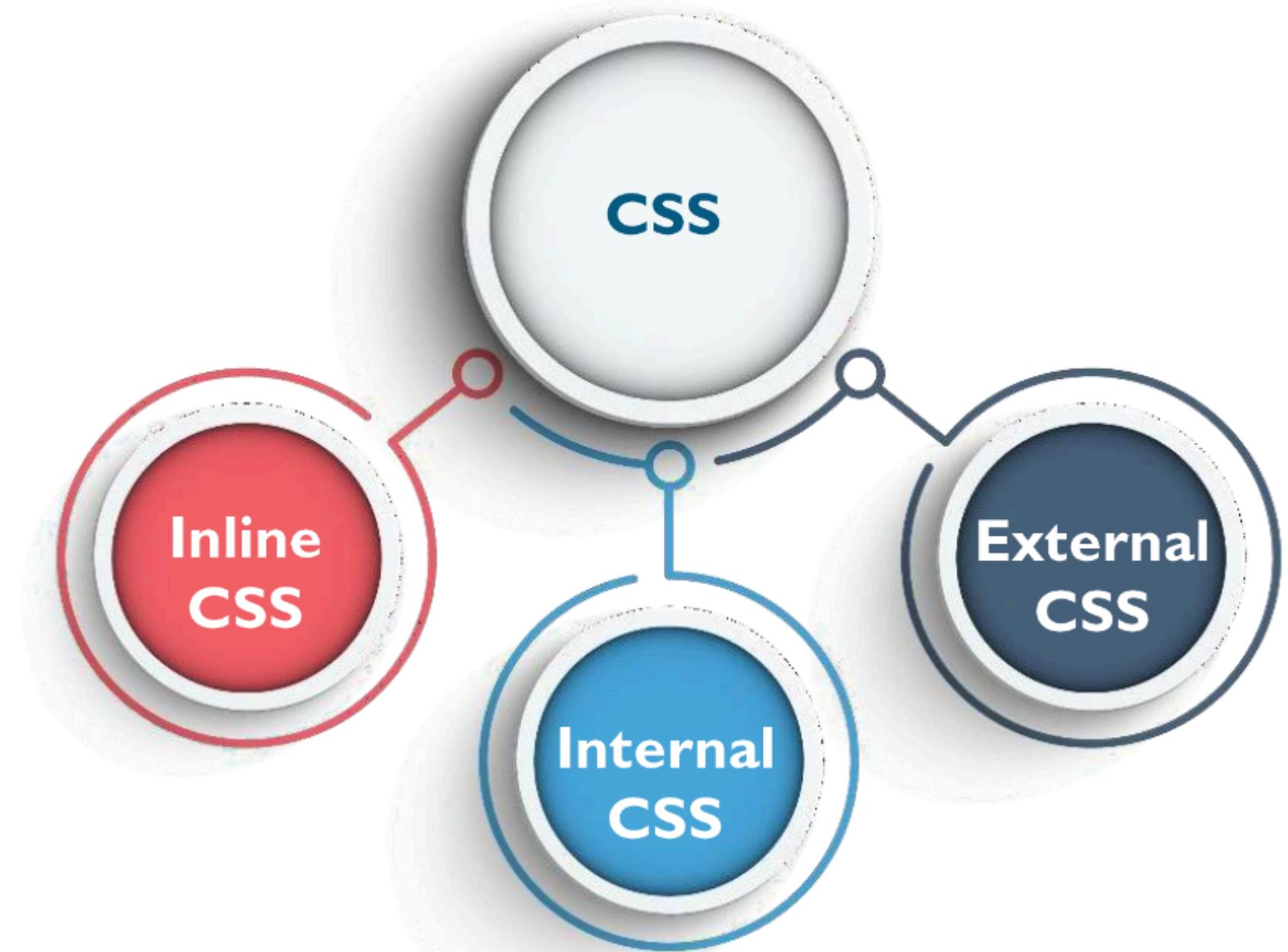
Advantages of CSS

- 1 **Easier** to maintain and update.
- 2 More **formatting** options.
- 3 **Lightweight** code.
- 4 **Search engine optimization (SEO)** benefits.
- 5 Great **accessibility**.



Activate Windows
Go to Settings to activate Windows.

Adding CSS to an HTML Page



WAYS TO ADD CSS TO HTML PAGE

Activate Windows
Go to Settings to activate Windows.

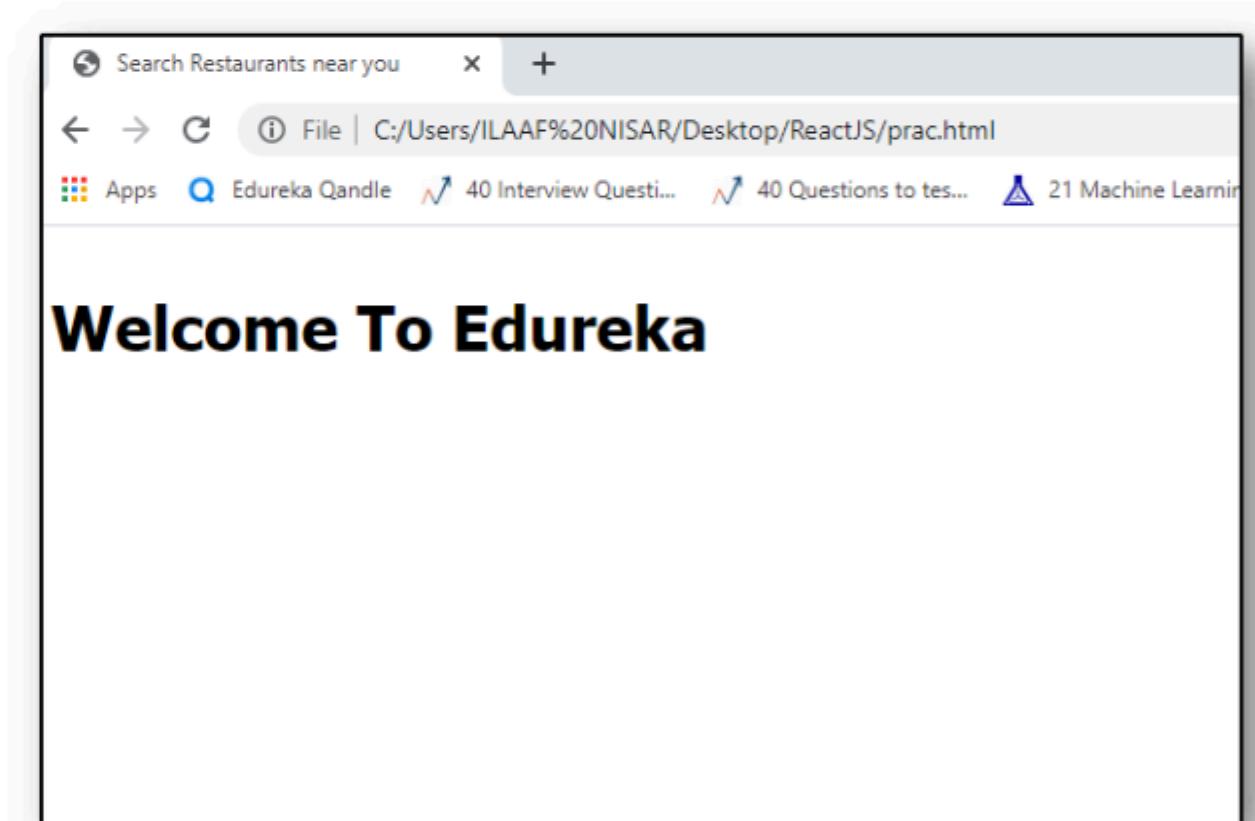
Inline CSS – Adding Style to an HTML Page

- Inline CSS can be used to add a unique style for a single HTML element.
- To use inline CSS, we have to add a **style** attribute along with the **HTML tag**.

Example (index.html)

```
<!DOCTYPE html>
<html>
  <head>
    <title>
      Search Restaurants near you
    </title>
  </head>
  <body>
    <p style="font-size:30px; font-weight:bold; font-family: tahoma">
      Welcome To Edureka
    </p>
  </body>
</html>
```

Output



Activate Windows
Go to Settings to activate Windows.

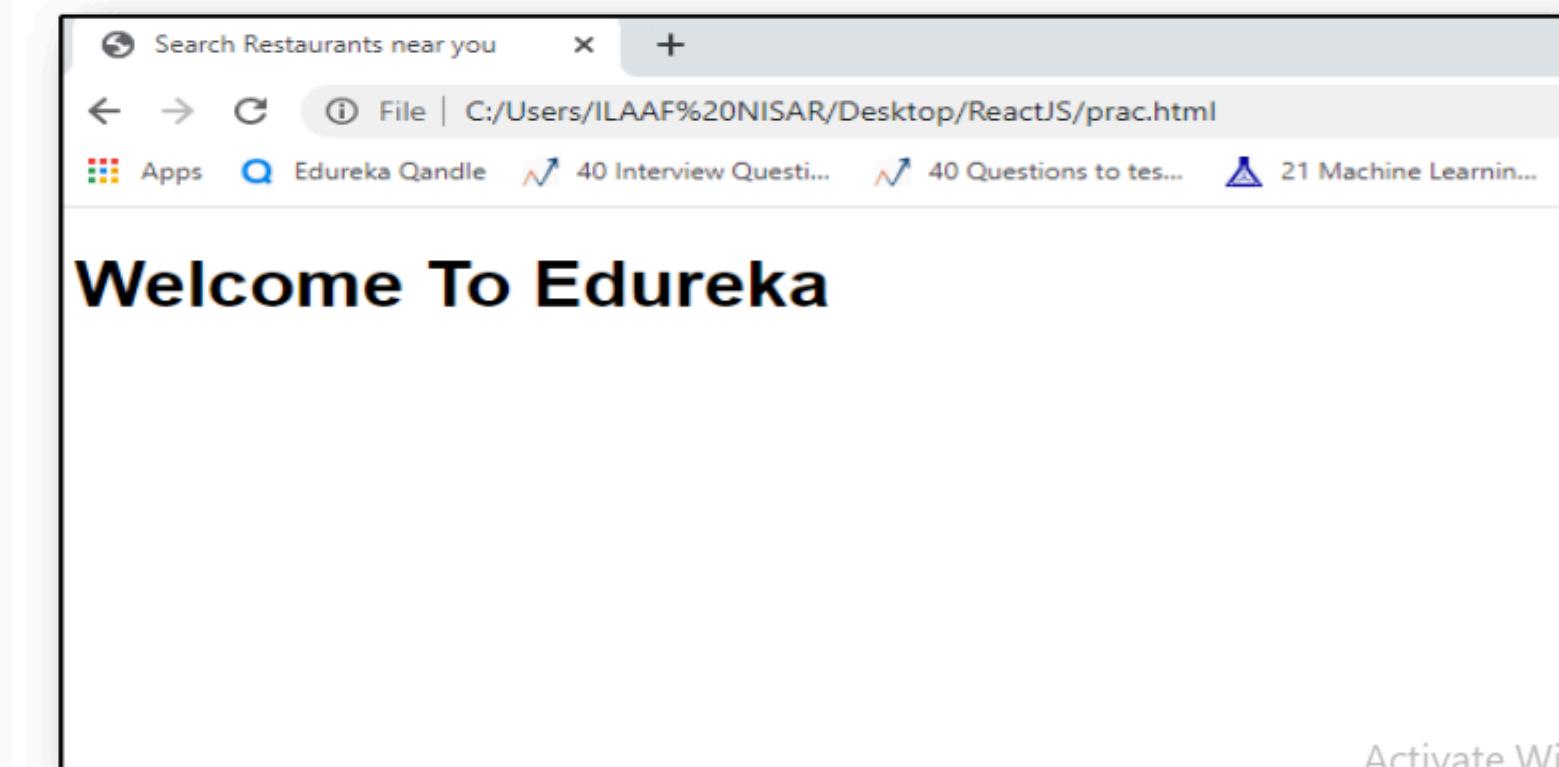
Internal CSS – Adding Style to an HTML Page

- In this approach, CSS styles are declared in the same HTML file. This is best suited for when a single page needs to be uniquely styled.
- Internal styles are defined within the `<style>` tag inside the **head section** of an HTML page.

Example (index.html)

```
<!DOCTYPE html>
<html>
  <head>
    <title>Search Restaurants near you</title>
    <style>
      h1 {
        font-size:30px;
        font-weight:bold;
        font-family: sans-serif;
      }
    </style>
  </head>
  <body>
    <h1>
      Welcome To Edureka
    </h1>
  </body>
</html>
```

Output



Activate Windows
Go to Settings to activate Windows.

External CSS – Adding Style to an HTML Page

- In this approach, CSS styles are declared in a separate CSS file (other than the HTML file), and then that CSS file is referenced from within the HTML file using the `<link>` tag.
- This approach is best suited for when we have to style a complete website that contains a lot of web pages.

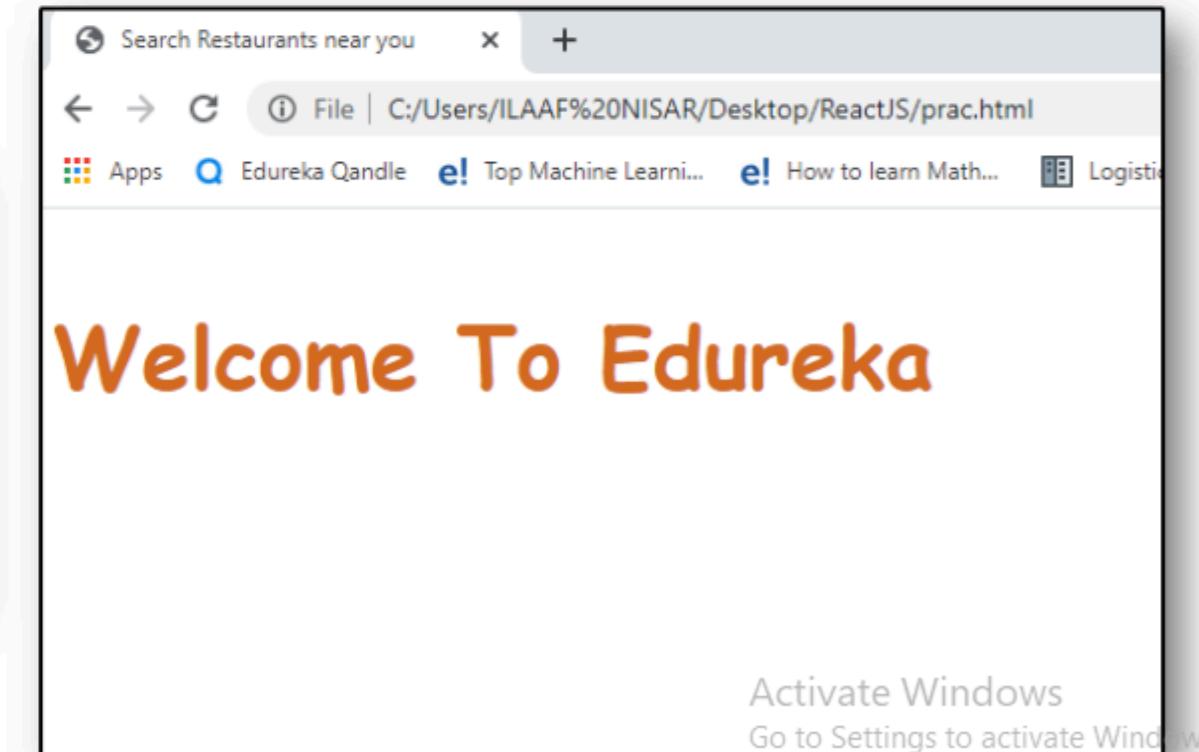
Example (index.html)

```
<!DOCTYPE html>
<html>
  <head>
    <title>Search Restaurants near you</title>
    <link rel="stylesheet" href="index.css">
  </head>
  <body>
    <p>Welcome To Edureka</p>
  </body>
</html>
```

Example (index.css)

```
p {
  font-size: 40px;
  font-weight: bold;
  font-family: cursive;
  color: chocolate;
}
```

Output





Select Your Style

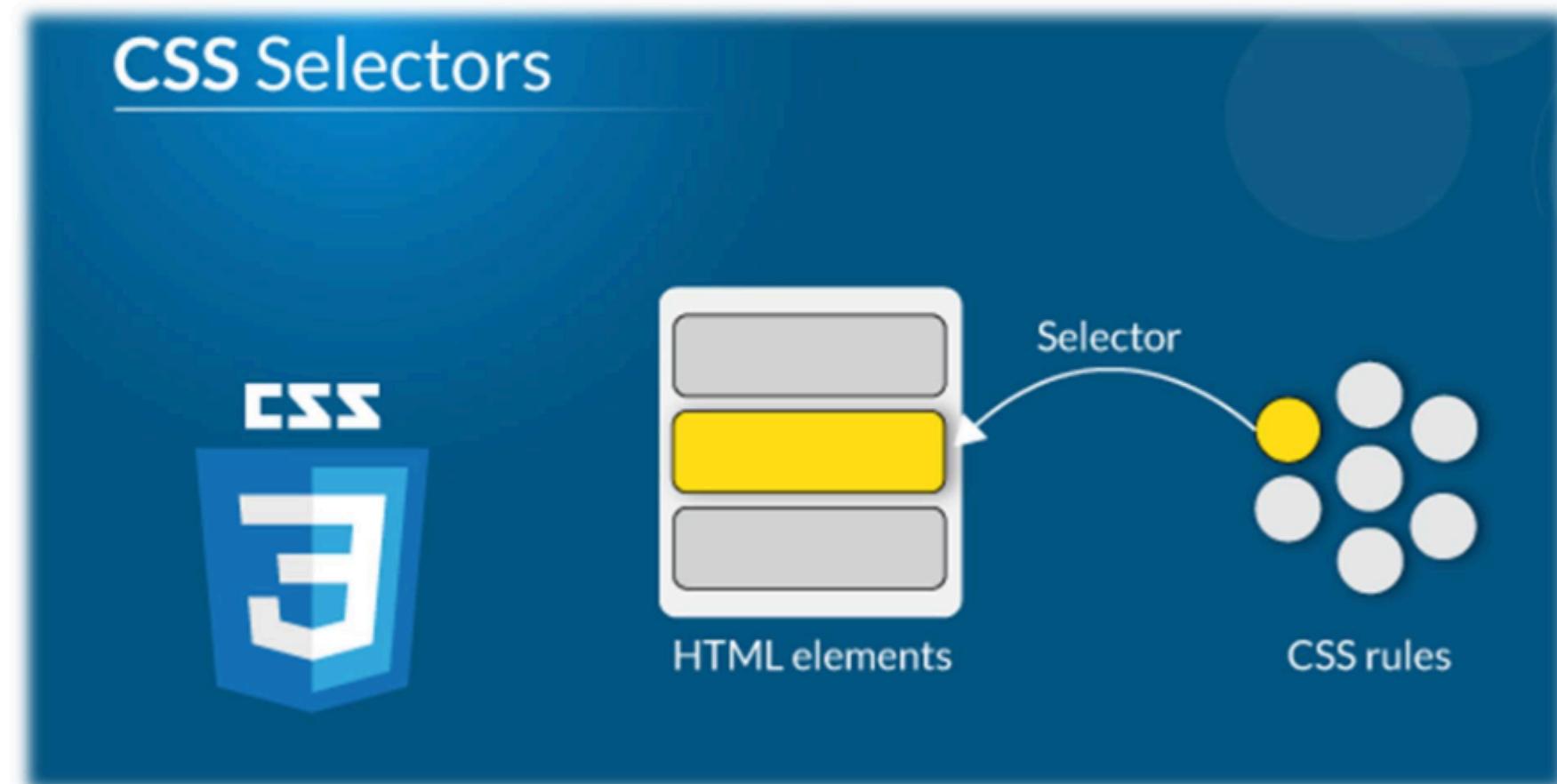
Exploring the Power of CSS Selectors

Activate Windows
Go to Settings to activate Windows.

Selectors in CSS

They are used to select the required HTML elements and specify their style. Some of the commonly used selectors are:

- Element name selector
- Element ID selector
- Element class selector
- Universal selector
- Grouping selector



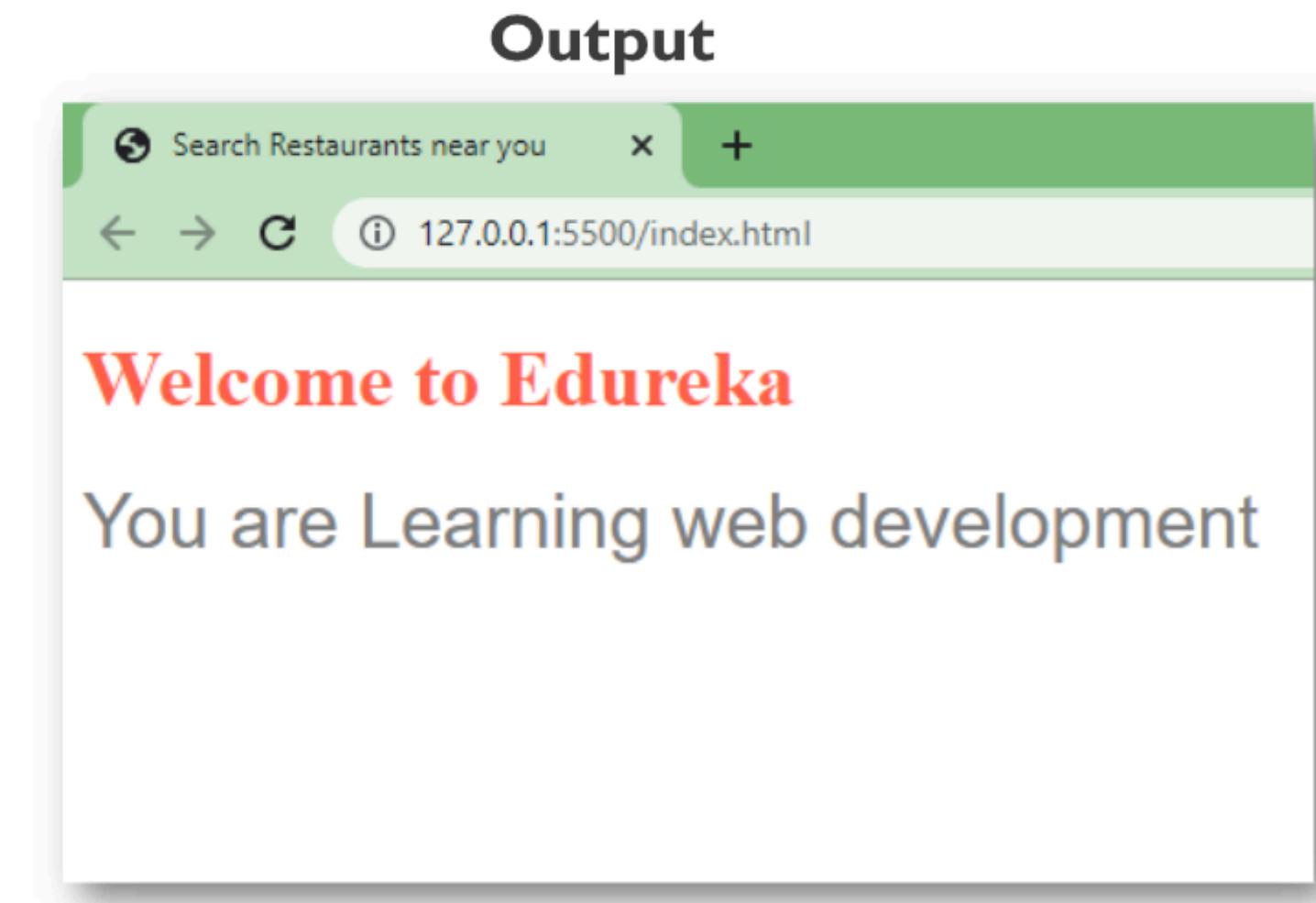
Activate Windows
Go to Settings to activate Windows.

Element Name Selector

- Here, the names of the HTML tags are used to select the element.
- If there are multiple attributes with the same element name, it will select all the attributes.

Example (index.html)

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Search Restaurants near you</title>
    <style>
      h1 {
        color: #tomato;
      }
      div {
        font-size: 30px;
        color: #grey;
        font-family: Arial;
      }
    </style>
  </head>
  <body>
    <h1>Welcome to Edureka</h1>
    <div>You are Learning web development</div>
  </body>
</html>
```



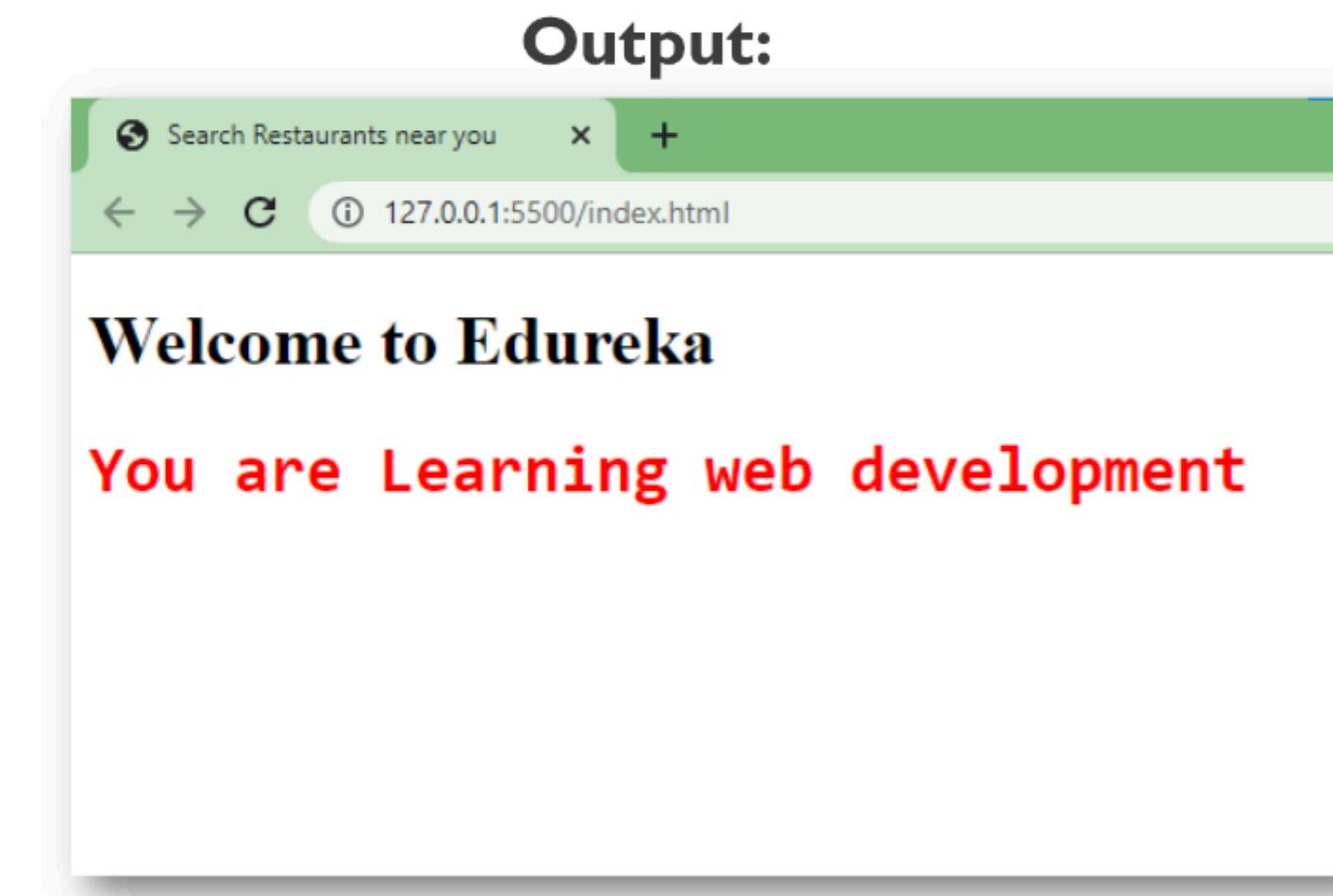
Activate Windows
Go to Settings to activate Windows.

Element ID Selector

- Here, the ID attribute is used to select the element.
- Elements inside a specific ID are selected by giving the id name preceded by the hash (#) character.

Example (index.html)

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Search Restaurants near you</title>
    <style>
      #demo {
        font-size: 30px;
        color: red;
        font-family: monospace;
      }
    </style>
  </head>
  <body>
    <h1>Welcome to Edureka</h1>
    <h1 id="demo">You are Learning web development</h1>
  </body>
</html>
```



Activate Windows
Go to Settings to activate Windows.

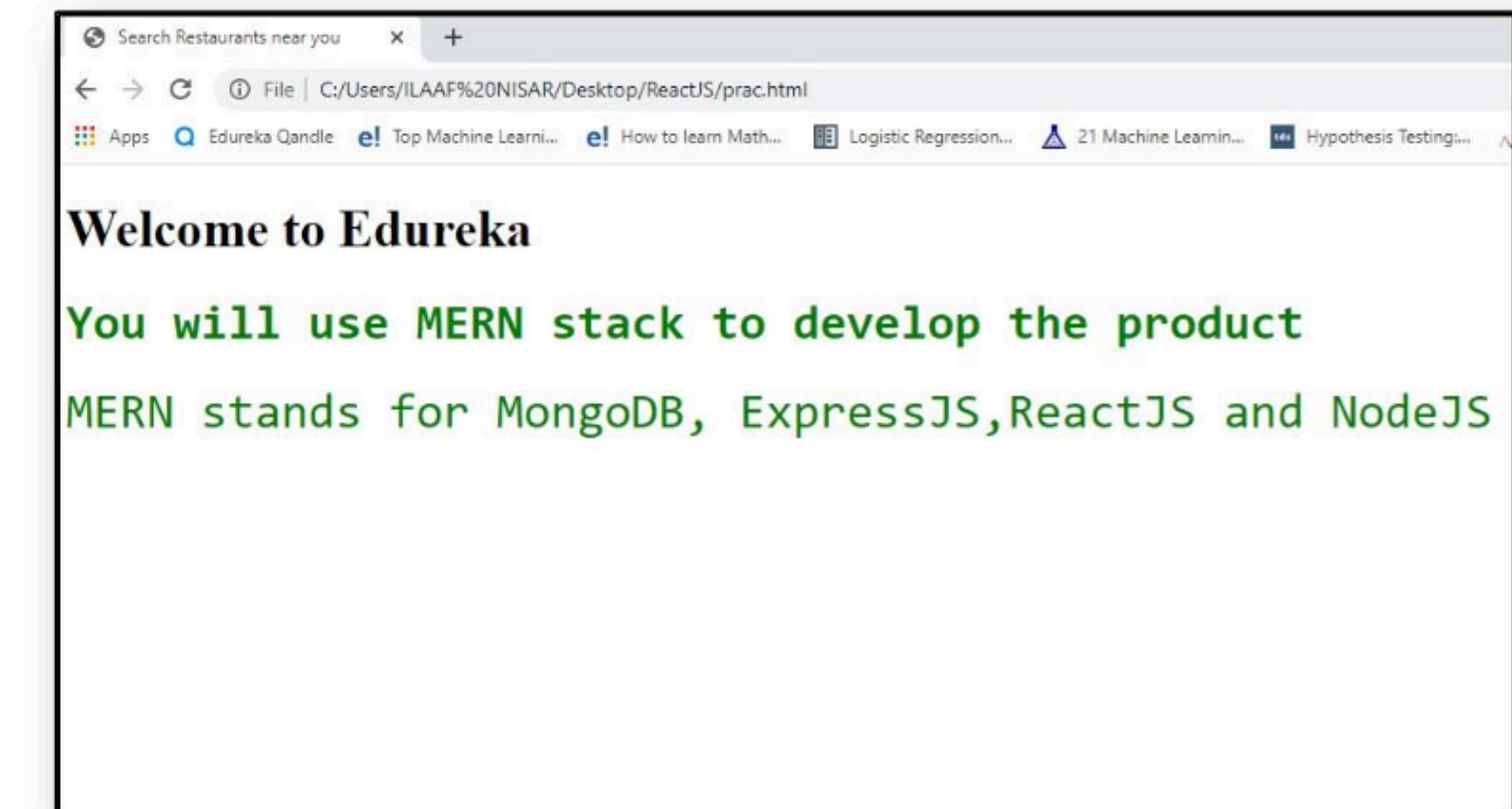
Element Class Selector

- Here, the class attribute is used to select the element.
- Elements inside a specific class are selected by giving the class name preceded by a dot (.) character.

Example (index.html)

```
<!DOCTYPE html>
<html>
  <head>
    <title>
      Search Restaurants near you
    </title>
    <style>
      .tech {
        font-size: 30px;
        color: green;
        font-family: monospace;
      }
    </style>
  </head>
  <body>
    <h1> Welcome to Edureka</h1>
    <h1 class="tech">
      You will use MERN stack to develop the product
    </h1>
    <div class="tech">
      MERN stands for MongoDB, ExpressJS,ReactJS and NodeJS
    </div>
  </body>
</html>
```

Output



Activate Windows
Go to Settings to activate Windows.

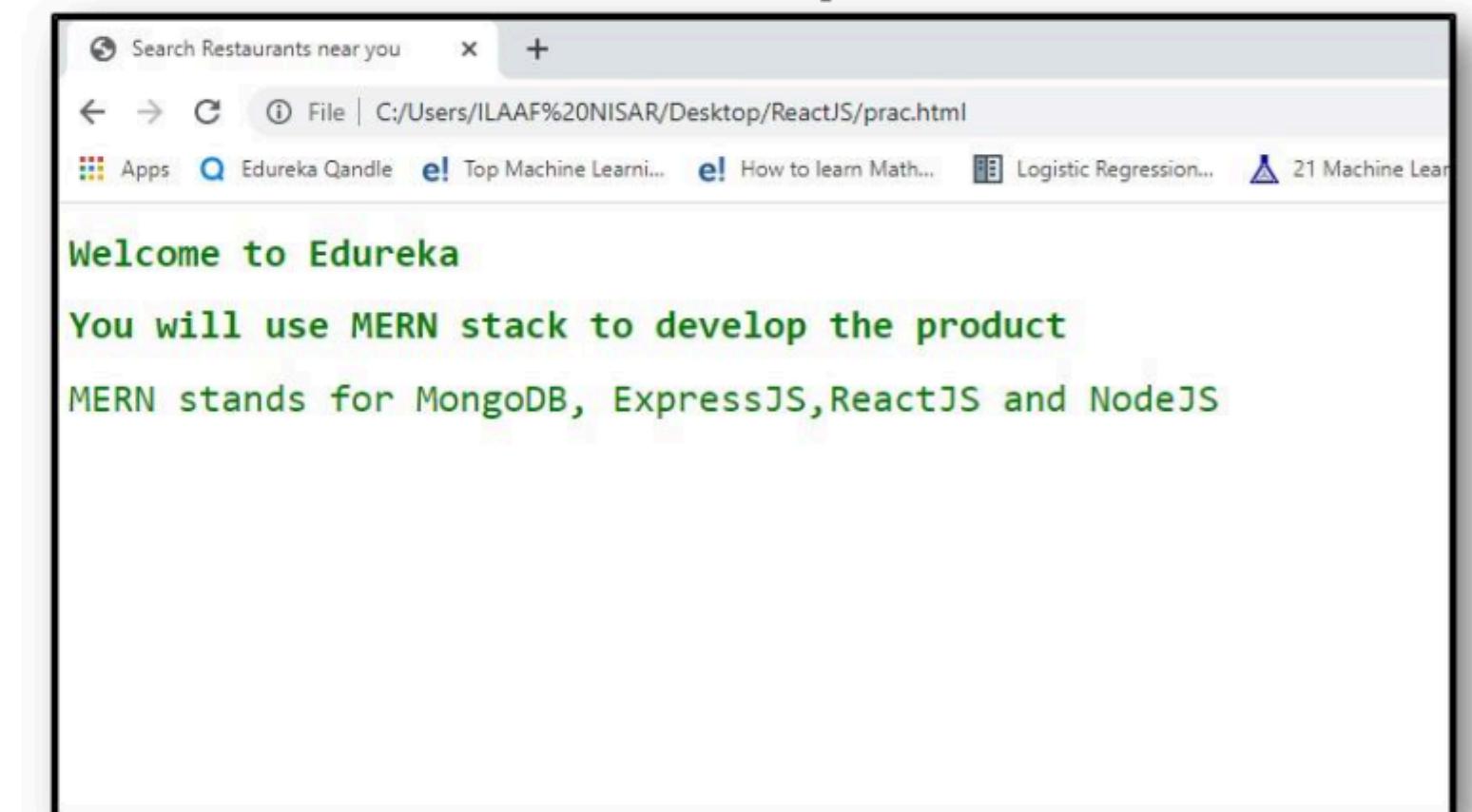
Universal Selector

- The universal selector selects all HTML elements in the web page.
- The **asterisk (*)** character is used to represent a universal selector.

Example (index.html)

```
<!DOCTYPE html>
<html>
  <head>
    <title>
      Search Restaurants near you
    </title>
    <style>
      * {
        font-size: 20px;
        color: green;
        font-family: monospace;
      }
    </style>
  </head>
  <body>
    <h1> Welcome to Edureka</h1>
    <h1 id="one">
      You will use MERN stack to develop the product
    </h1>
    <div class="tech">
      MERN stands for MongoDB, ExpressJS,ReactJS and NodeJS
    </div>
  </body>
</html>
```

Output



Activate Windows
Go to Settings to activate Windows.

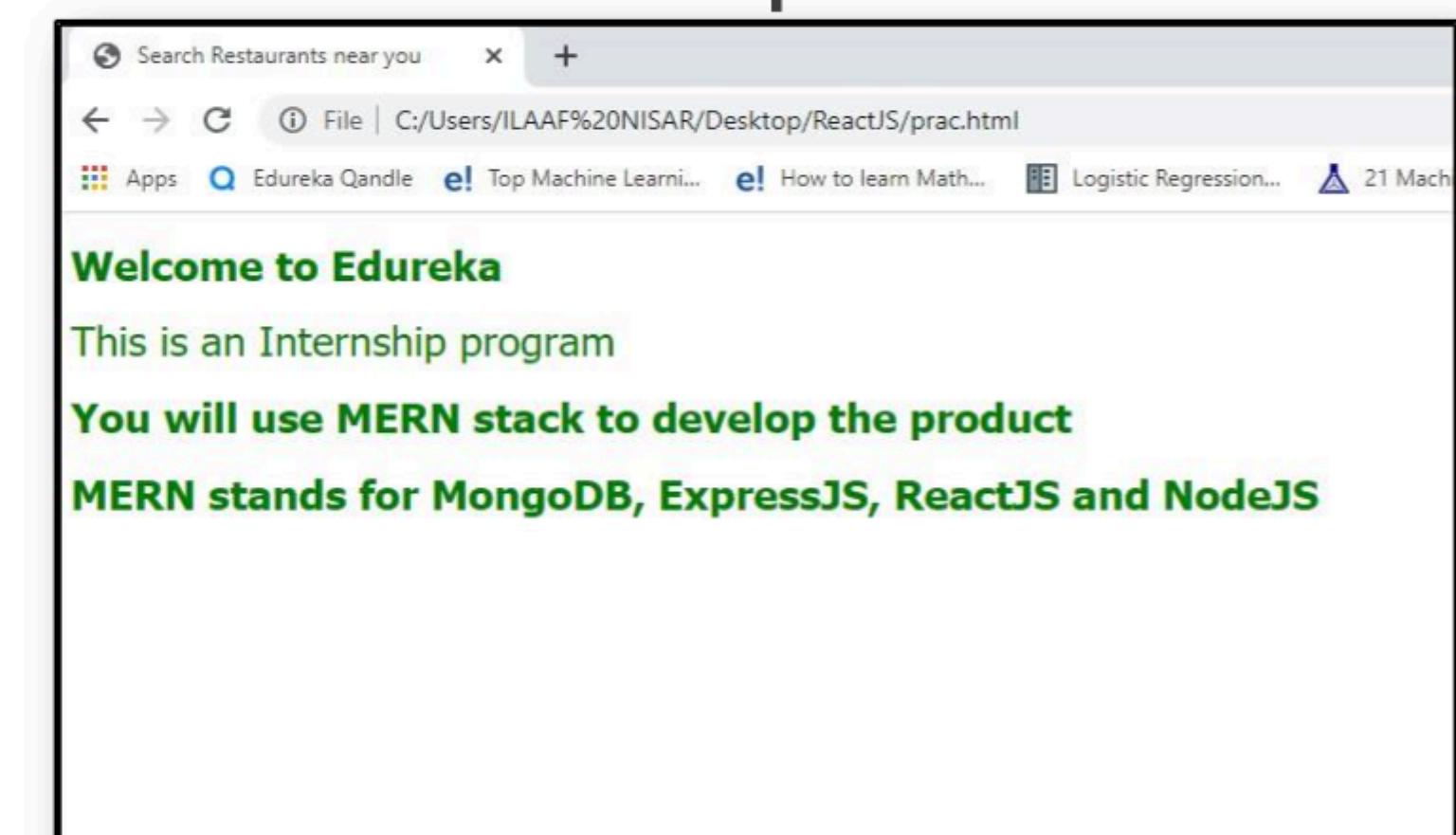
Grouping Selector

- The grouping selector is used to select multiple HTML elements and style them together.
- It helps to minimize the code.

Example (index.html)

```
<!DOCTYPE html>
<html>
  <head>
    <title>
      Search Restaurants near you
    </title>
    <style>
      div, .tech, #one, h1 {
        font-size: 20px;
        font-family: tahoma;
        color: green;
      }
    </style>
  </head>
  <body>
    <h1> Welcome to Edureka</h1>
    <div>
      This is an Internship program
    </div>
    <h1 class="tech">
      You will use MERN stack to develop the product
    </h1>
    <h1 id="one">
      MERN stands for MongoDB, ExpressJS, ReactJS and NodeJS
    </h1>
  </body>
</html>
```

Output



Activate Windows
Go to Settings to activate Windows.