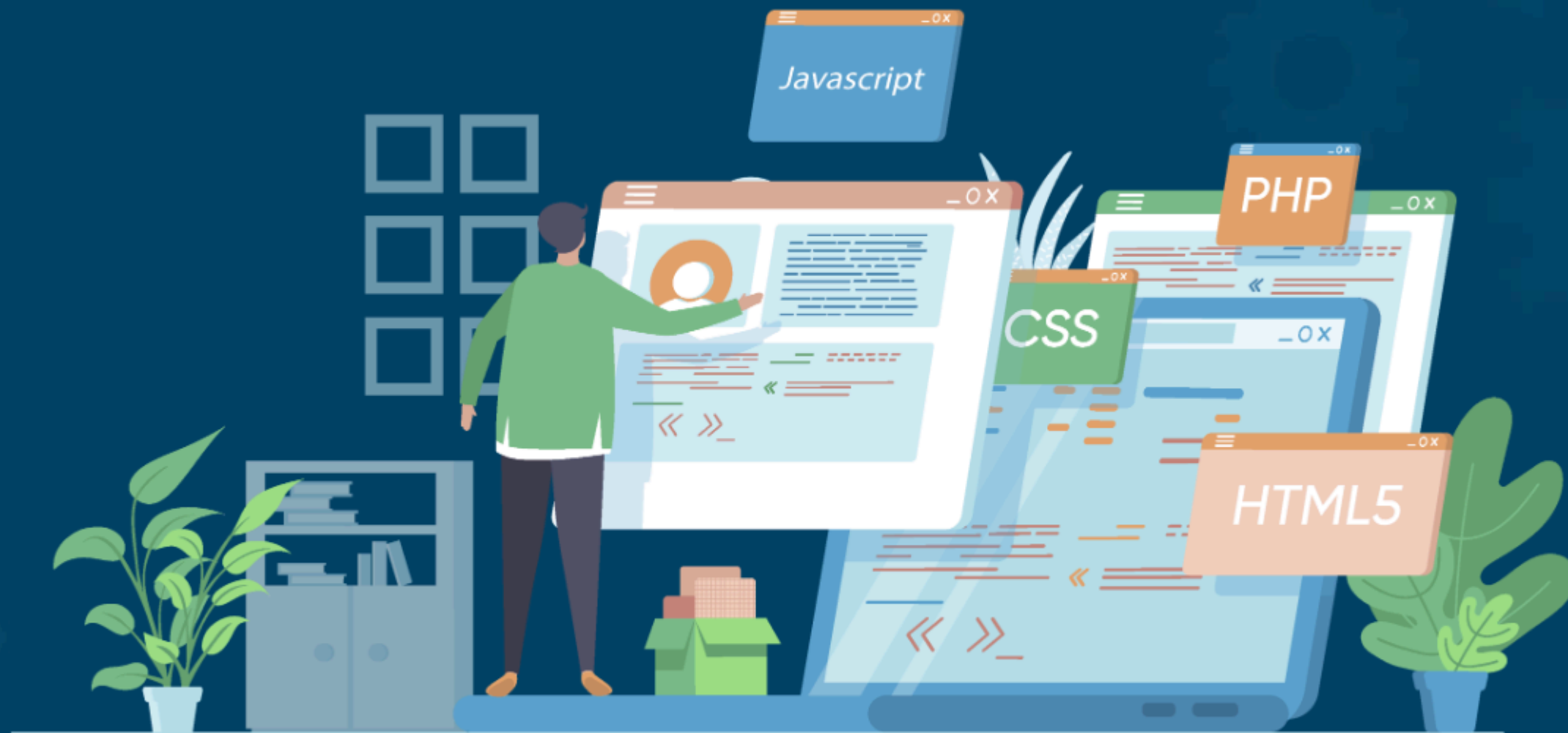




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# Full Stack Web Development Program

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# Day 7 - Introduction to CSS

# Titles

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- 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



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# Learning Objectives

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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



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# Cascading Style Sheets

## Way to Make Webpage Appealing

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# 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`.



HTML



HTML + CSS



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# Advantages of CSS

1

**Easier** to maintain and update.

2

More **formatting** options.

3

**Lightweight** code.

4

**Search engine optimization (SEO)** benefits.

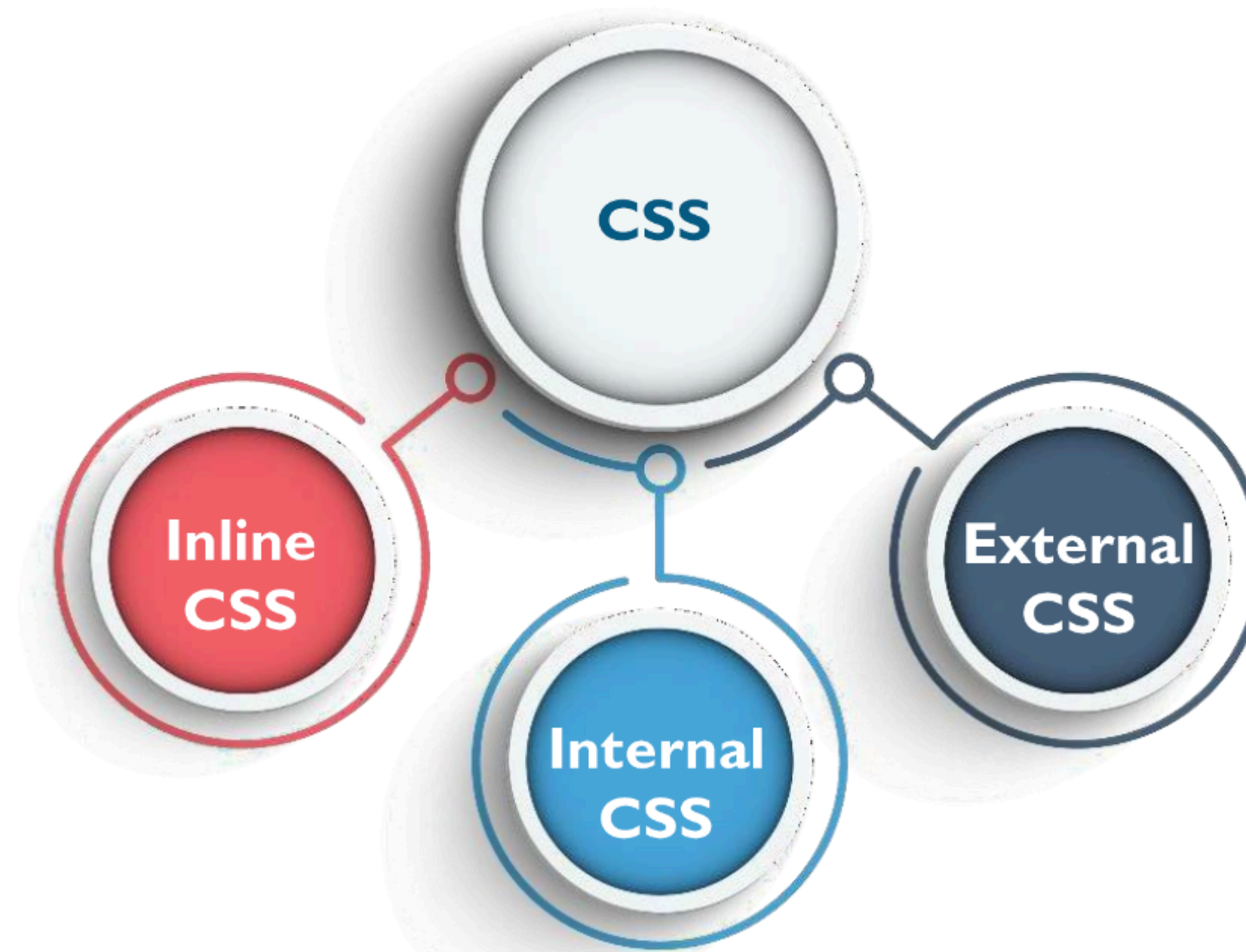
5

Great **accessibility**.



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# Adding CSS to an HTML Page



**WAYS TO ADD CSS TO HTML PAGE**

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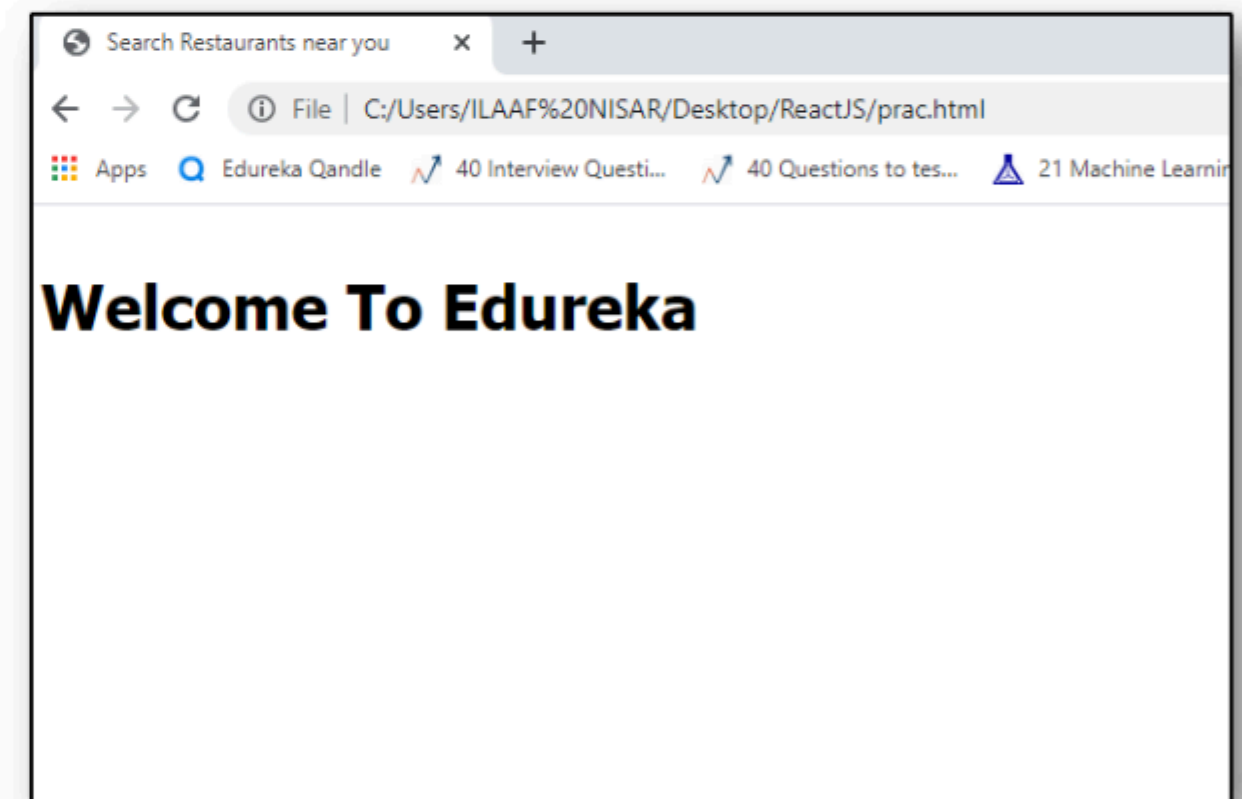
# Inline CSS – Adding Style to an HTML Page

- 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



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# Internal CSS – Adding Style to an HTML Page

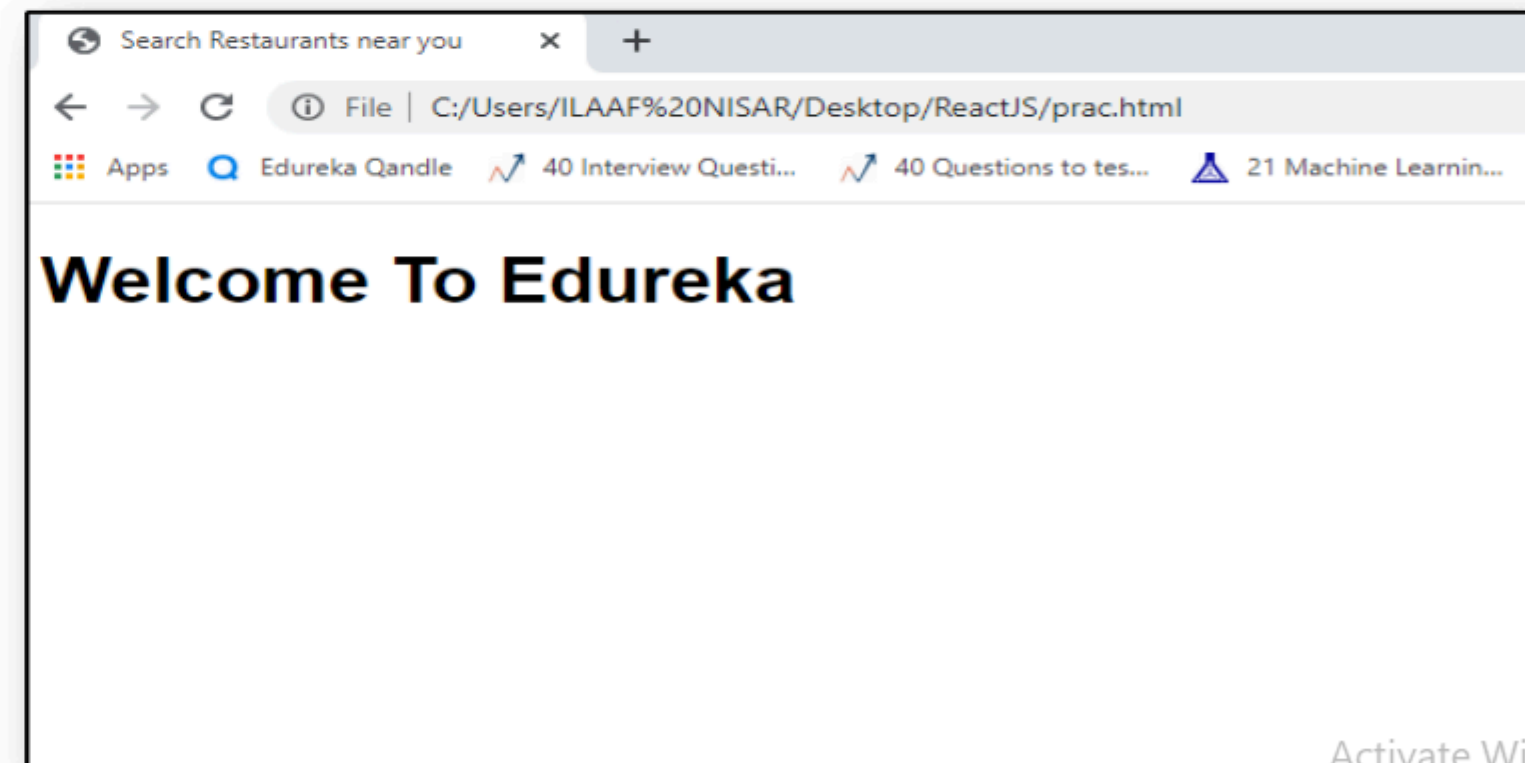
- In this approach, CSS styles are declared in the same HTML file. This is best suited for when a single page needs to be uniquely styled.
- Internal styles are defined within the `<style>` tag inside the `head` section of an HTML page.

## 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



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# 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.

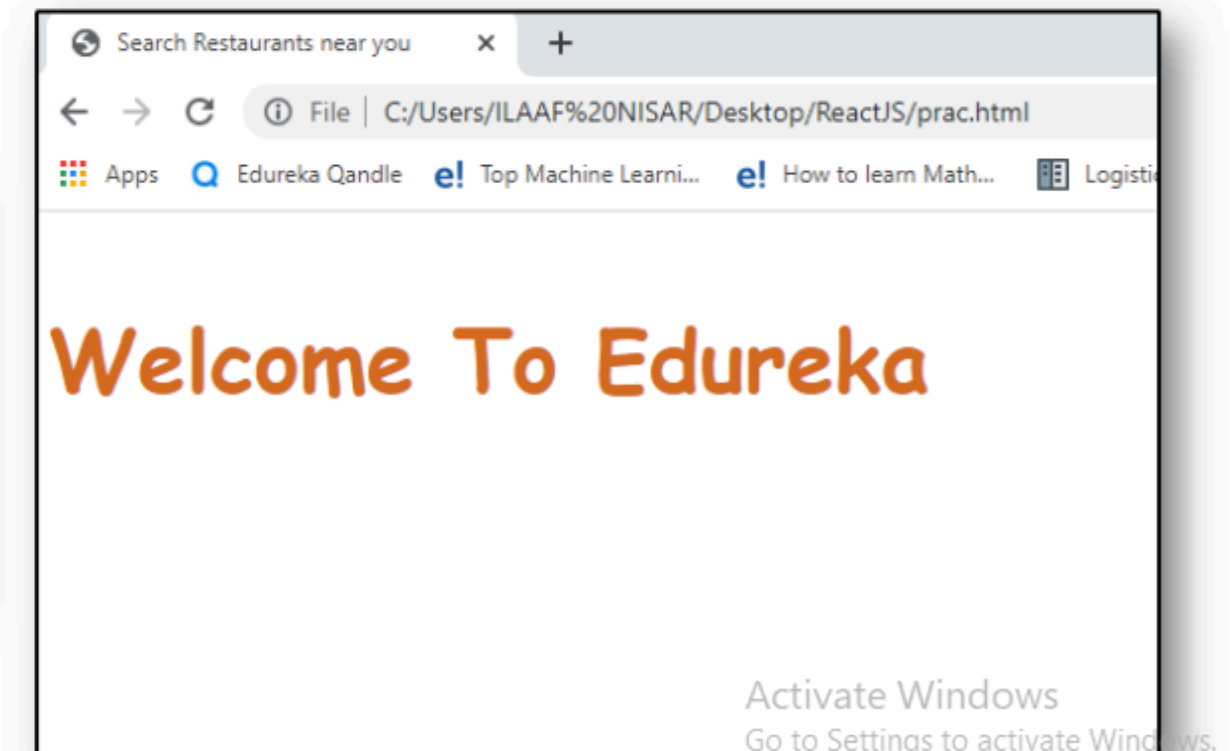
## Example (index.html)

```
<!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

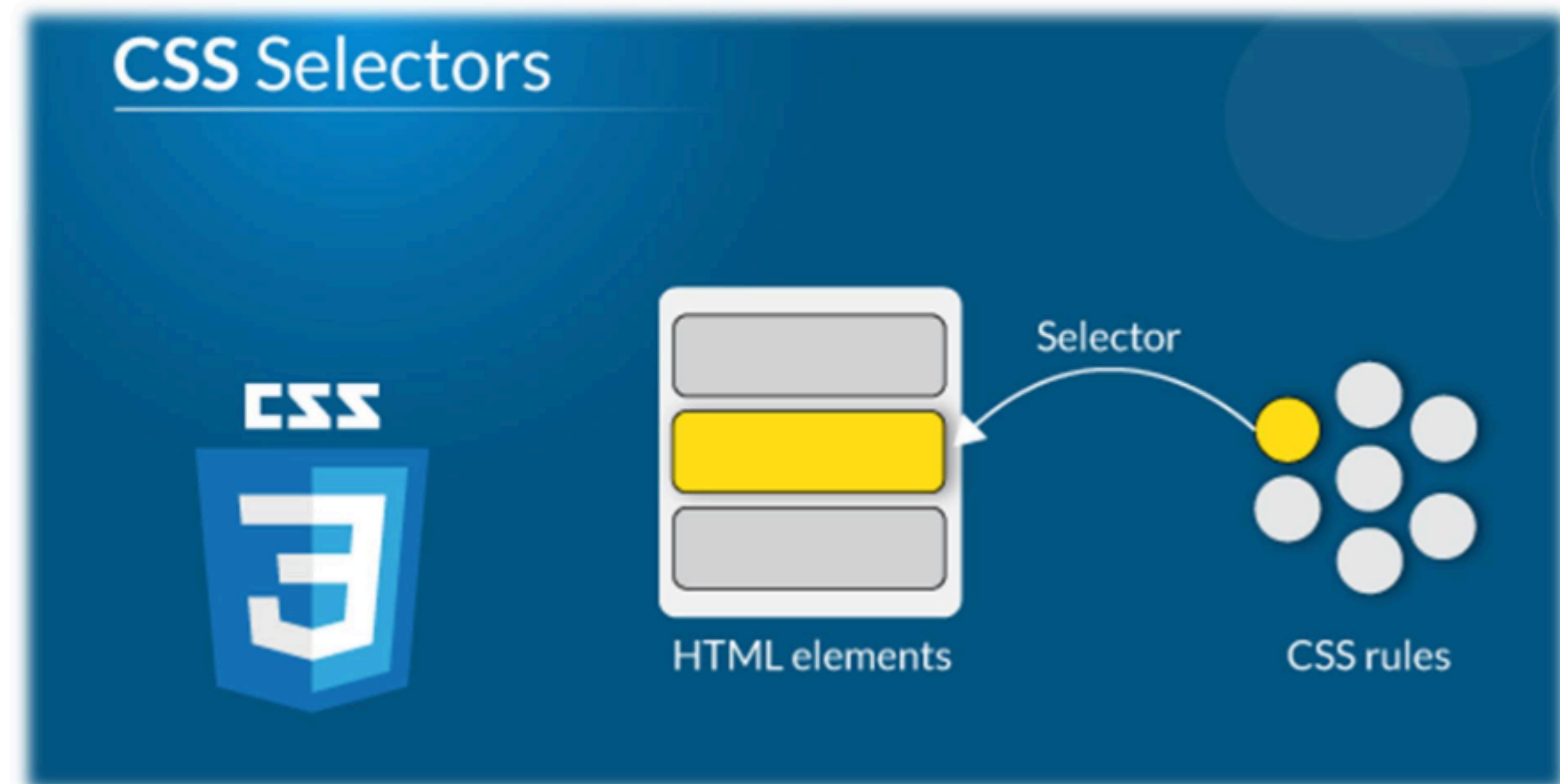
## Exploring the Power of CSS Selectors

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# 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





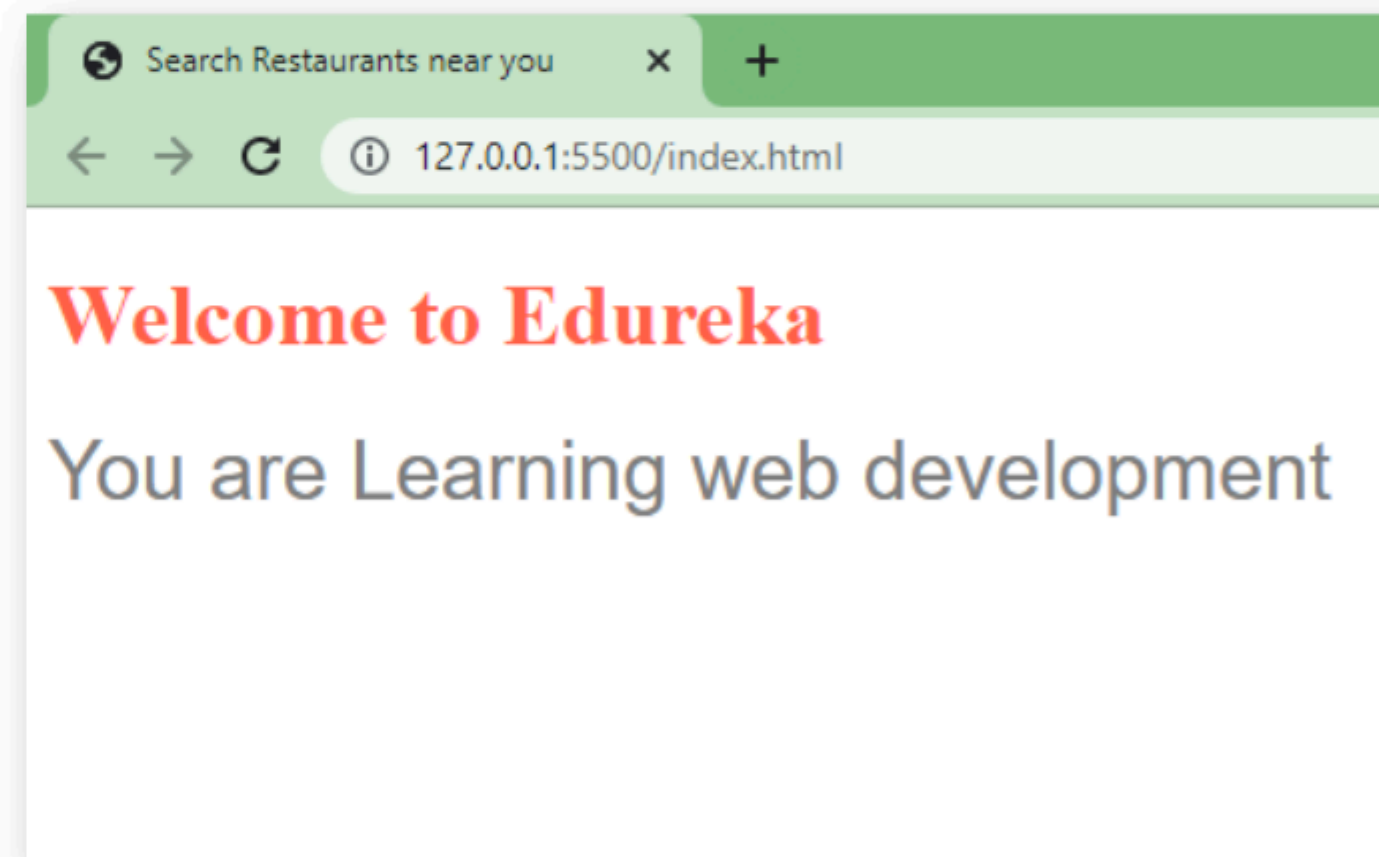
# Element Name Selector

- 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>
```

## Output



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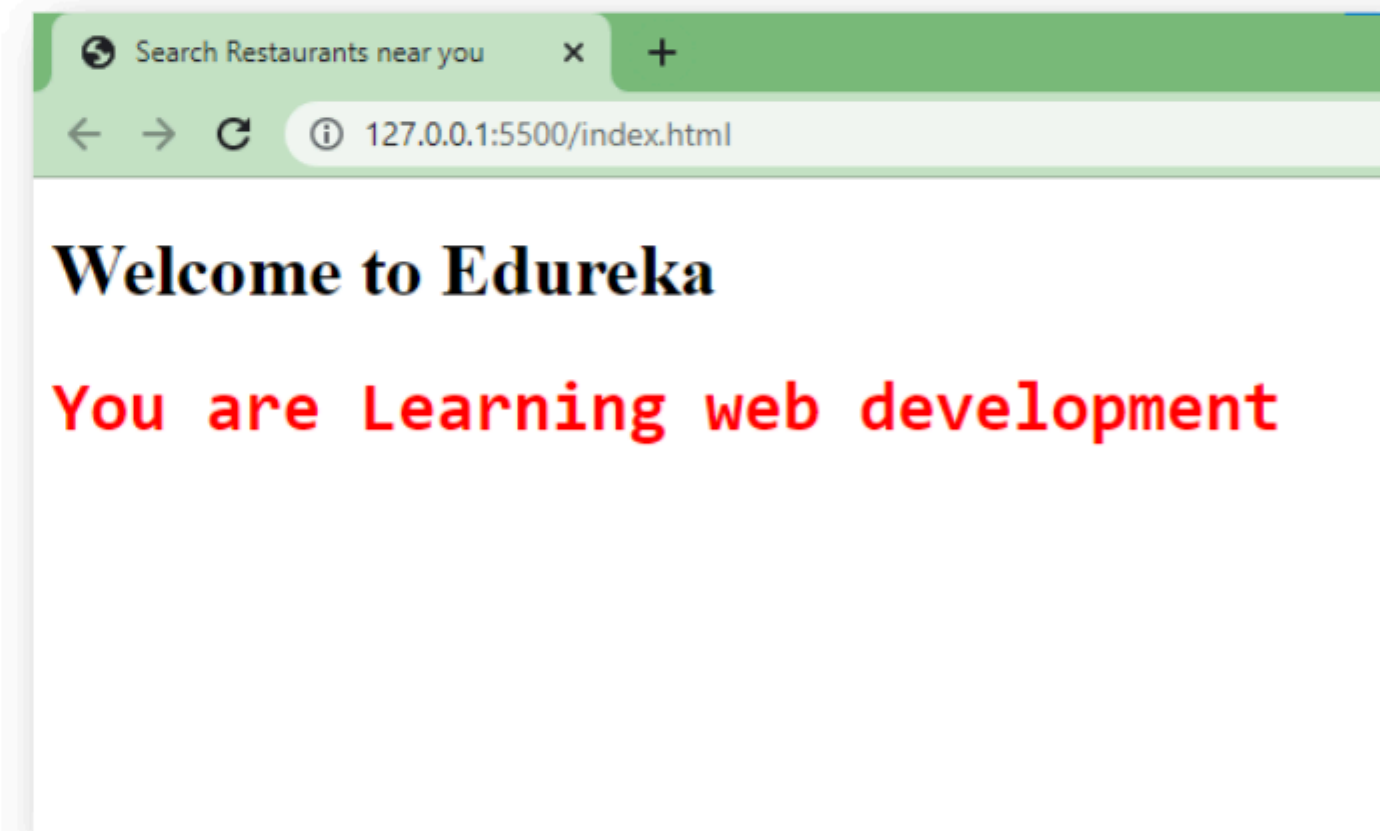
# Element ID Selector

- 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>
```

## Output:



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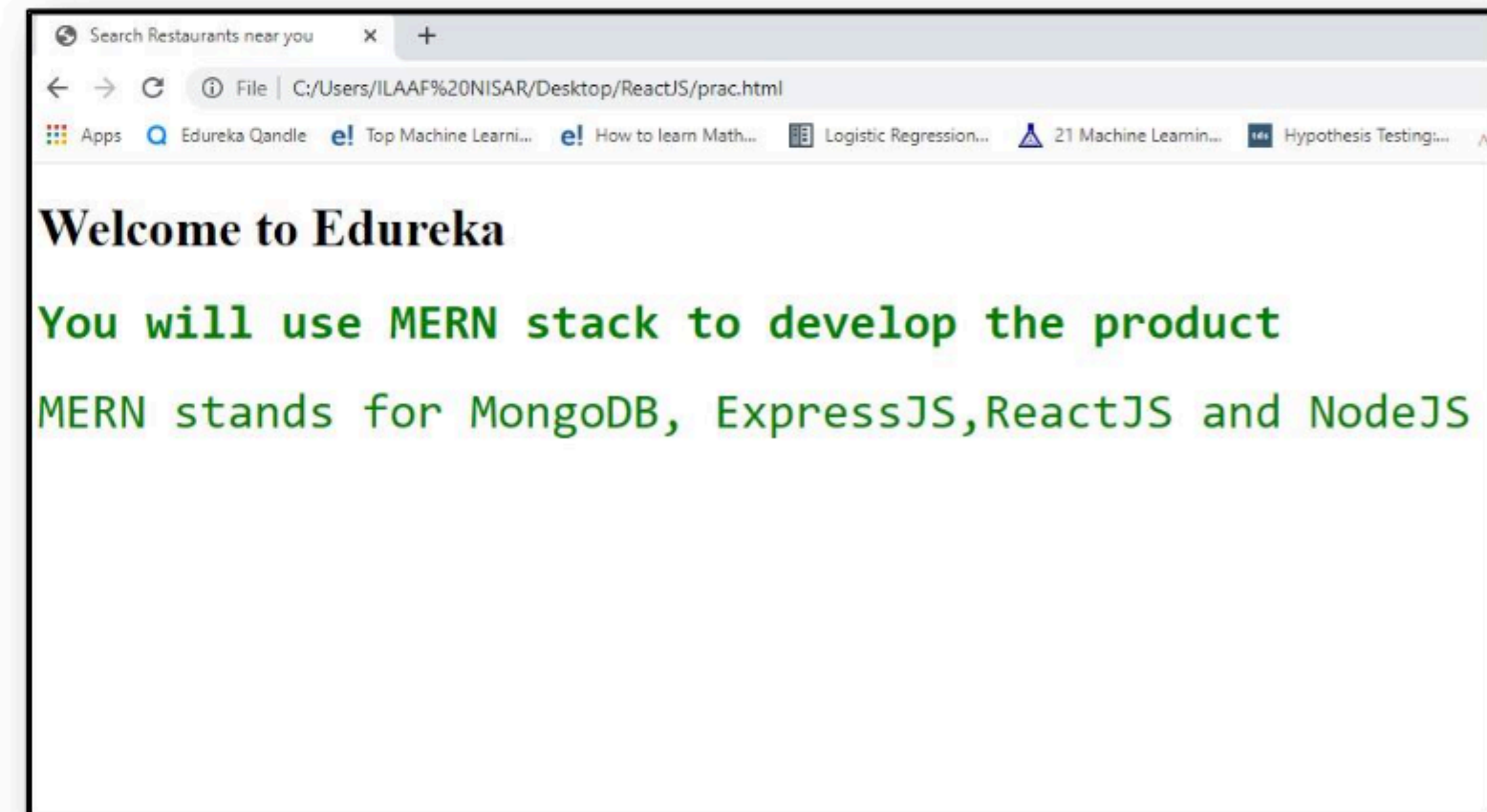
# Element Class Selector

- 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



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