# **HTML and CSS Full Course Content**

# **HTML:** HyperText Markup Language

## 1. Introduction to HTML

- What is HTML?
  - o HTML is the standard markup language for creating web pages.
- HTML Structure:

# 2. Basic HTML Tags

Headings: <h1> to <h6> Example:<h1>Main Heading</h1>

<h3>Subheading</h3>

• Paragraphs:

Example:

```
This is a paragraph of text.
```

• Lists:

o Ordered List:

```
    >Item 1
    >Item 2
```

o Unordered List:

```
Item A
Item B
```

## 3. Links and Images

• **Links**: <a> Example:

```
<a href="https://example.com" target=" blank">Visit Example</a>
```

• **Images**: <img> Example:

```
<img src="image.jpg" alt="Description" width="300">
```

#### 4. Tables

• Creating Tables:

#### 5. Forms

• Form Elements:

#### 6. Semantic HTML

• Common Semantic Tags:

```
o <header>, <nav>, <article>, <footer>, <section>
```

# **CSS: Cascading Style Sheets**

#### 1. Introduction to CSS

- What is CSS?
  - o CSS is used to style HTML elements.
- CSS Syntax:

```
selector {
  property: value;
}
```

# 2. Types of CSS

• Inline CSS:

```
This is red text.
```

• Internal CSS:

```
<style>
p {
font-size: 16px;
}
</style>
```

• External CSS:

Link an external CSS file:

```
<link rel="stylesheet" href="styles.css">
```

#### 3. Selectors

- Universal Selector (\*): Styles all elements.
- Class Selector (.classname):

```
.highlight {
  color: blue;
}
```

• ID Selector (#id):

```
#main-heading {
  font-size: 24px;
}
```

#### 4. Box Model

• Understanding Margins, Borders, Padding, and Content: Example:

```
div {
  margin: 10px;
  padding: 20px;
  border: 2px solid black;
  width: 200px;
}
```

## 5. Layouts

• Flexbox:

```
.container {
  display: flex;
  justify-content: center;
  align-items: center;
}
```

• Grid:

```
.grid {
  display: grid;
  grid-template-columns: repeat(3, 1fr);
}
```

## 6. Responsive Design

• Media Queries:

```
@media (max-width: 768px) {
  body {
    font-size: 14px;
  }
}
```

#### 7. CSS Transitions and Animations

• Transitions:

```
button {
  transition: background-color 0.3s ease;
}
```

## • Animations:

```
@keyframes slide {
   from {
     transform: translateX(0);
  }
  to {
     transform: translateX(100px);
  }
}
```