```html
<!-- ! media query -->
```

Definition:
- **Media queries** are a CSS technique that allows you to apply styles to elements based on the characteristics of the device or screen displaying the content. They are essential for creating responsive web designs that adapt to different screen sizes, orientations, and resolutions.

Basic Syntax:
- The basic structure of a media query involves the `@media` rule followed by a media type and one or more expressions to check for specific conditions.

```css
@media (condition) {
  /* CSS rules here */
}
```

Common Media Features (Conditions):

1. **Width and Height**:
   - **`min-width`**: Target screens that are at least a certain width.
   - **`max-width`**: Target screens that are no wider than a certain width.
   - **`min-height`**: Target screens that are at least a certain height.
   - **`max-height`**: Target screens that are no taller than a certain height.
   - **Example**:
     ```css
     @media (min-width: 600px) {
       /* Styles for screens wider than 600px */
     }
     ```

2. **Orientation**:
   - **`orientation: portrait`**: Targets devices with a portrait orientation (height is greater than width).
   - **`orientation: landscape`**: Targets devices with a landscape orientation (width is greater than height).
   - **Example**:
     ```css
     @media (orientation: landscape) {
       /* Styles for landscape mode */
     }
     ```

we can also give range for applying media query :

- **Example**:
  ```css
  @media (min-width: 600px) and (max-width: 1200px) {
    /* Styles for screens between 600px and 1200px wide */
  }
  ```