# Responsive Web Design with Media Queries.

### **Theory Assignment 5**

## Q.1 What are the media queries in CSS, and why are they important for responsive design?

**Ans:** Media queries in CSS are a way to apply different styles to a website based on the device or screen size it's being viewed on. Think of them as a set of conditions that tell the browser, "If the screen is this wide, use these styles instead.

@media (max-width: 768px) {
 body {
 background-color: lightblue;
 }
}

In this case, if the screen is **768 pixels wide or smaller** (like on a tablet or mobile phone), the background color of the website will change to light blue.

### Why Are Media Queries Important for Responsive Design?

Responsive design means that your website adjusts smoothly to different screen sizes—whether someone is using a phone, tablet, laptop, or desktop. Media queries are essential for this because:

- 1. **They improve user experience:** Visitors can easily read and navigate your site no matter what device they're using.
- 2. They reduce the need for multiple versions of a site: Instead of creating a separate mobile site, media queries let you adapt one site to all devices.

- 3. **They make your site future-proof:** As new devices with different screen sizes come out, your site can adapt with minimal changes.
- 4. **They help with SEO:** Search engines like Google prioritize mobile-friendly, responsive websites.

Q.2 Write a basic media query that adjusts the font size of a webpage for screens smaller than 600px.

Ans:

```
css
@media (max-width: 600px) {
  body {
    font-size: 14px;
  }
}
```

#### How it works?

- @media (max-width: 600px): This checks if the screen width is 600px or less.
- Inside the curly braces {}, we apply the styles we want to use for those small screens.
- font-size: 14px;: This sets the font size of the entire page (body text) to 14 pixels when the screen is small.