**Responsive Web Design with Media Queries**

**Q.1 What are media queries in CSS, and why are they important for responsive.**

Ans. Media queries in CSS are rules that let a website adapt its design based on screen size, resolution, or device type. They are important for responsive design because they ensure the site looks good and works well on all devices, from mobiles to desktops.

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

Ans. EXAMPLE:-

@media (max-width: 600px) {

body {

font-size: 14px;

}

}

This reduces the font size to **14px** when the screen width is **600px or smaller**.

**Typography and Web Fonts**

**Q.1 Explain the difference between web-safe fonts and custom web fonts. Why might you use a web-safe font over a custom font?**

Ans. Here’s difference between web-safe fonts and custom web font:

**Web-safe fonts**

* Pre-installed on almost all devices (e.g., Arial, Times New Roman, Verdana).
* Do not require downloading, so they load fast and display consistently.

**Custom web fonts**

* Added using services like Google Fonts or @font-face in CSS.
* Offer more design variety and uniqueness but require downloading, which can slow page load.

**Why use web-safe fonts over custom fonts?**

You might use web-safe fonts when you want **faster loading, guaranteed compatibility, and reliability across all devices**, especially in performance-focused projects.

**Q.2 What is the font-family property in CSS? How do you apply a custom Google Font to a webpage?**

Ans. **Font-family property in CSS**

The font-family property specifies the typeface of text. You can list multiple fonts as a fallback system (if one font isn’t available, the next will be used).

Example:

p {

font-family: "Arial", "Helvetica", sans-serif;

}

**Applying a Google Font**

1. Go to [Google Fonts](https://fonts.google.com/), choose a font, and copy the <link> tag.
2. <link href="https://fonts.googleapis.com/css2?family=Roboto&display=swap" rel="stylesheet">
3. Use it in your CSS with font-family:
4. body {
5. font-family: "Roboto", sans-serif;
6. }

* This loads the custom font from Google and applies it to your webpage.