

**Q1: What are media queries in CSS, and why are they important for responsive design? Media queries are special rules in CSS that let a webpage change its style depending on the device or screen size.**

They are important because:

- They help make websites responsive (look good on mobile, tablet, and desktop).
- They adjust things like font size, layout, colors, or images for different screens.
- Without media queries, a site might look fine on a computer but messy on a phone.

In short: Media queries = adjust design for different screen sizes.

**Q2: Write a basic media query that adjusts the font size of a webpage for screens smaller than 600px.**

This code will make the font size smaller on screens less than 600px wide (like mobile phones):

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

## **Explanation:**

- @media → starts the media query.
- (max-width: 600px) → applies the style only if the screen is 600px or smaller.
- Inside { } → we write the styles to change (here, font-size).

## **Summary:**

- Media queries = tools for responsive web design.
- They let us change CSS depending on device size.
- Example above changes font size for small screens.