

Q1. What are media queries in CSS, and why are they important for responsive design?

Ans: Media Queries: Media queries are CSS rules that allow you to apply different styles based on the device's characteristics, such as screen size, resolution, or orientation. They help websites adjust their layout automatically depending on whether the user is on a mobile, tablet, or desktop.

Why Media Queries Are Important for Responsive Design?

1. Make websites mobile-friendly
They allow content to resize and rearrange itself on smaller screens.
2. Improve user experience
Text becomes readable, buttons become clickable, and the layout fits the device properly.
3. Avoid horizontal scrolling
Layouts adapt so users don't need to zoom or scroll sideways.
4. Better control over different screens
You can hide, show, or change the style of elements for different devices.

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

Ans:

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