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Learning Report: Media Queries & Responsive Website Design

In this task, I created a simple HTML and CSS project to understand and practice **media queries** for making a responsive website layout. The main objective was to explore how a web page can automatically adjust its layout, content, font sizes, and background color based on different screen sizes (mobile, tablet, desktop).

I started by defining a basic HTML structure that includes a heading, an image, and a paragraph. I used CSS to style each section and applied **media queries** to change the layout based on the screen width. The meta tag with viewport settings was added in the <head> to ensure the website scales properly on different devices.

For responsiveness:

- I applied a **background color** to the body that changes depending on the screen size using media queries. If the screen width is more than 768px, the background becomes **light blue** (for tablets and desktops). If the width is 768px or less, the background becomes a **soft pink** (for mobiles).
- The heading section .q1 was styled to have different **font sizes and colors** for large and small screens, helping to make the text readable across devices.
- I used display: flex in the .q2 container to place the image and text side by side on larger screens. On smaller screens, the img class .img1 was styled with max-width: 100% and height: auto to make sure the image **automatically resizes** to fit the mobile screen.

This project helped me understand how **responsive design** works using media queries and how to control different components like background, image size, text formatting, and layout using screen size-based CSS rules. I also learned how important it is to test on different devices or screen widths to make sure the layout looks good and remains user-friendly.

Overall, this practice improved my skills in **CSS media queries**, **responsive layouts**, and **flexbox**, making me more confident in building mobile-friendly web pages.