Nimisha Jagtap

Assignment Questions 3

**Q.1** What is a Media Query in CSS, and what is its purpose?

Ans:- A media query in CSS is a conditional statement that allows you to apply different styles to a web page depending on the device or environment it is being viewed on.

The purpose of media queries is to make your web page or application display and behave properly across a wide range of devices, from desktop computers to mobile phones and everything

**Q.2** How do you define a media query in CSS?

Ans:- A media query in CSS is a conditional statement that allows you to apply different styles to a web page depending on the device or environment it is being viewed on. The @media rule is used to define media queries in CSS.

syntax for a media query:-

@media media\_type and (media\_feature\_expression) {

/\* CSS styles \*/

}

**Q.3** Explain the concept of Breakpoints in Responsive Web Design and How They are used in Media Queries.

Ans:- Breakpoints are a key concept in responsive web design. They are the points at which the layout of a web page changes depending on the width of the viewport. Breakpoints are typically defined in media queries, which are conditional statements that allow you to apply different CSS styles to a web page depending on the device or environment it is being viewed on.

**Q.4** What is the purpose of using Media Queries for Print Media?

Ans:-Media queries can be used to apply different CSS styles to a web page depending on the device or environment it is being viewed on. This includes print media.The @media print rule is used to define media queries for print media. The @media print rule can be used to do things like:

* Change the font size and line height.
* Hide or show certain elements.
* Add page breaks.
* Change the margins and padding.
* Change the background color.

**Q.5** What is the purpose of the **orientation** media feature?

Ans:- The orientation media feature is used to test the orientation of the viewport (or the page box, for paged media). It has two possible values: portrait and landscape.

* Portrait: The viewport is taller than it is wide.
* Landscape: The viewport is wider than it is tall.

**Q.6** Imagine you are a web developer working for a creative agency that specializes in building visually appealing and interactive websites. The agency has recently received a client request to create a landing page similar to the design of the one-page website: <https://www.getonecard.app/>. The client wants to showcase a video prominently on the page to engage visitors.

Your task is to create a simple webpage that replicates the one-page landing page design, including a responsive layout and an HTML video. The below images are for your reference. Some browsers don’t allow you to play videos without the controls attribute. So, you can add controls here, we will learn how to play a video without the controls attribute in the later sections.

Ans:- <https://github.com/jagtapnimisha2/OneCard>

**Q.7** You are tasked with building a webpage that displays an image gallery using a grid layout. The challenge is to ensure the gallery is visually appealing and functional on both large and small screens. On large screens, the gallery should display multiple images per row, while on small screens, it should collapse into a single column for optimal viewing. Refer to the attached images for visual reference. Implement this using CSS Grid and media queries for responsiveness.

Ans:-<https://github.com/jagtapnimisha2/gallery/tree/main>

**Q.8** In this coding challenge, your task is to create an information section for the previously built OneCard webpage clone, focusing on the different modes like dark and light modes. The webpage should look different depending on the screen size: dark mode for larger screens and light mode for smaller devices. The reference images are attached below.

Ans:- <https://github.com/jagtapnimisha2/informationsectionfooter>

**Q.9** You have reached the final task of learning responsive web design, which involves designing a responsive footer. Your goal is to build a simple webpage footer that matches the design shown in the attached image. The footer should adapt to different screen sizes, ensuring optimal visibility and alignment of the content. Refer to the attached image for a visual reference

Ans:-<https://github.com/jagtapnimisha2/footer>

**Q.10** You have been given to create a student dashboard page that includes a student details table. The challenge lies in handling the table's display on different screen sizes. On large screens, the table should be fully visible, while on small screens, it should have an internal scroll to ensure proper visibility of information. Refer to the attached images for visual reference.

Ans:- <https://github.com/jagtapnimisha2/StudentDashboard>