

PPT Program Assignment

Web Development Assignment - 3

Answer 1: A media query in CSS is a technique used to apply specific styles to a webpage based on certain conditions, such as the characteristics of the device or the screen size on which the webpage is being viewed. Its purpose is to make the webpage responsive and adaptable to different devices and screen sizes, ensuring a consistent and optimal user experience across various platforms.

Answer 2: In CSS, we define a media query using the `@media` rule followed by a set of conditions within parentheses. Basic syntax:

```
@media (condition) {
```

```
}
```

The condition in a media query can be based on various factors like screen width, device orientation, device type, resolution, and more. For example, you can target devices with a maximum screen width of 768 pixels by using the “max-width” condition:

```
@media (max-width: 768px) {
```

```
}
```

Within the media query block, you can write CSS rules specific to the defined condition. These rules will only be applied when the condition is met, allowing you to customize the layout, styling, or other aspects of your webpage for different devices or screen sizes.

Answer 3: In responsive web design, breakpoints are specific points or thresholds in the layout where the design adapts or “breaks” to accommodate different screen sizes or devices. These breakpoints are defined using media queries in CSS.

Media queries are used to define these breakpoints in CSS. They allow you to apply different styles and layout changes based on specific conditions, such as the screen width. For example, you might have a breakpoint at 768 pixels where the layout switches from a multi-column view to a single-column view to better fit smaller screens.

Example:

CSS for large screens

```
@media (min-width: 1200px) {
```

```
}
```

CSS for medium screens

```
@media (max-width: 1199px) and (min-width: 768px) {  
  
}
```

CSS for small screens

```
@media (max-width: 767px) {  
  
}
```

Answer 4: The purpose of using media queries for print media is to apply specific styles and formatting when a webpage is being printed. It allows designers to optimize the appearance of printed content by targeting print-specific features like page size, margins, and colors, ensuring a well-formatted and readable printed output.

Answer 5: The purpose of the orientation media feature is to target and apply specific styles based on the orientation of a device's screen, whether it is in portrait or landscape mode. It allows designers to optimize the layout and presentation of content to suit different orientations, enhancing the user experience on devices that support screen rotation.

Answer 6: [Github Repo Link](#)

Answer 7: [Github Repo Link](#)

Answer 8: [Github Repo Link](#)

Answer 9: [Github Repo Link](#)

Answer 10: [Github Repo Link](#)