

## Assignment module 21

### Q1. What are media queries in CSS and their use case?

**Ans:-**CSS media queries are a CSS feature that allows our web content to adapt to different devices based on screen size, device capabilities, and the user's preferences.

Media queries help to make a modern responsive design with ease. We can use them to create different styles for different devices. It aids in the responsiveness of the website.

#### Use case:

1. Responsive Web Design.
2. Viewport Sizes.
3. Device Characteristics.
4. Print Stylesheets.
5. Accessibility.
6. Feature Detection

### Q2. Difference between min-width and max-width in media queries in CSS.

**Ans:-**

#### Min-width:

- **Usage:** min-width is used to apply styles when the viewport width is equal to or exceeds a specified minimum value.
- **Behavior:** Styles specified within a min-width media query will be applied when the viewport width is equal to or greater than the specified minimum width.
- **Example:** @media (min-width: 768px) { ... } applies styles when the viewport width is 768 pixels or wider.

#### Max-width:

- **Usage:** max-width is used to apply styles when the viewport width is less than or equal to a specified maximum value.
- **Behavior:** Styles specified within a max-width media query will be applied when the viewport width is less than or equal to the specified maximum width.

- **Example:** @media (max-width: 1024px) { ... } applies styles when the viewport width is 1024 pixels or narrower.

### Q3. Explain float property and clear property in CSS with Example.

**Ans:-**

**Float property:** The float property in CSS is used to specify whether an element should float to the left or right within its containing element. When an element is floated, it is removed from the normal document flow and positioned to one side, allowing other content to flow around it.

**Code:**

```
.float-example {  
    float: left; /* or right */  
}
```

Example:

**HTML-**

```
<div class="float-example" style="background-color: red; width: 100px; height: 100px;"></div>  
<div class="float-example" style="background-color: blue; width: 100px; height:  
100px;"></div>
```

**CSS-**

```
.float-example {  
    float: left; /* or right */  
    margin: 10px; /* Optional: Adds space around floated elements */  
}
```

**Clear property:** The clear property in CSS is used to control the behavior of elements that follow floated elements. It specifies whether an element should be moved below any floated elements that come before it in the document flow.

**Code:**

```
.clear-example {  
    clear: both; /* or left, right */  
}
```

Example

**HTML-**

```
<div class="clear-example" style="background-color: green; width: 100px; height: 100px;"></div>
```

**CSS-**

```
.clear-example {  
    clear: both; /* or left, right */  
    margin-top: 10px; /* Optional: Adds space above the cleared element */  
}
```