**HTML/CSS Notes - Week 4**

Date:- 09/03/2022

**CSS Media Queries:-**

a) It is a Technique introduced in CSS3 which is used to make responsive web designs. A media query consists of a media type and can contain one or more expressions, which resolve to either true or false.

b) The result of the query is true if the specified media type matches the type of device the document is being displayed on and all expressions in the media query are true. When a media query is true, the corresponding stylesheet or style rules are applied.

c) There are 4 types of media types:-

-> all- Used for all media type devices

-> print- Used for printers

-> screen- Used for computer screens, tablets, smart-phones etc.

-> speech- Used for screen readers that "reads" the page out loud.

d) Unless we use the not or only operators, the media type is optional and the all type will be implied.

e) We can also have different stylesheets for different media, like this:

-> <link rel="stylesheet" media="screen and (min-width: 900px)" href="widescreen.css">

-> <link rel="stylesheet" media="screen and (max-width: 600px)" href="smallscreen.css">

Example:-

| <**html** lang="en">  <**head**>  <**meta** charset="UTF-8" />  <**meta** http-equiv="X-UA-Compatible" content="IE=edge" />  <**meta** name="viewport" content="width=device-width, initial-scale=1.0" />  <**title**>Media Queries Examples</**title**>   <**style**>  body {  background: lightseagreen;  }    @media screen and (max-width: 768px) {  body {  background-color: lightcoral;  }  }    @media screen and (max-width: 760px) {  .content {  text-align: center;  }  }  </**style**> </**head**>  <**body**>  <**div** class="content">  <**h1**>Demo Heading</**h1**>  <**p**>  Lorem ipsum dolor sit amet consectetur adipisicing elit. Omnis officia impedit accusantium, consequatur rerum assumenda, esse ab rem blanditiis fuga earum repellat, itaque dolorum. Magni ipsam veniam repudiandae assumenda aliquam?  </**p**>  </**div**> </**body**>  </**html**> |
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f) Comma separated list: We can add an additional media query to an already existing one, using a comma (this will behave like an OR operator). Example:-

| <!DOCTYPE html> <**html**>  <**head**>  <**meta** name="viewport" content="width=device-width, initial-scale=1" />  <**style**>  @media screen and (max-width: 900px) and (min-width: 600px),  (min-width: 1100px) {  .demo-content {  font-size: 40px;  padding: 30px;  border: 8px solid rgb(9, 6, 6);  background: rgb(44, 72, 82);  color: #fff;  }  }  </**style**> </**head**>  <**body**>  <**h2**>Additional Media Query with an Existing One!</**h2**>   <**div** class="demo-content">This element is for testing puposes.</**div**>   <**p**>  <**b**>Lorem ipsum, dolor sit amet consectetur adipisicing elit. Accusantium  non quos perferendis nemo quidem dolor labore quis, doloribus, nam  blanditiis maxime iste qui dolore enim delectus dolorum aperiam impedit  nihil.</**b**  >  </**p**>  </**body**> </**html**> |
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g) Media queries can also be used to change the layout of a page depending on the orientation of the browser. We can set CSS properties that will only apply when the browser window is wider than its height, a so-called "Landscape" orientation. Syntax of this media query is:-

| @media only screen and (orientation: landscape) |
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