

## **Bootstrap**

### **Ans(1):-**

### **Media Queries:-**

→Media queries in CSS are used to apply different styles based on the characteristics of a user's device, such as screen size, resolution, or orientation.

### **Why it is important:-**

→They are essential for responsive design because they allow web pages to adapt and provide an optimal viewing experience across various devices, including desktops, tablets, and Smartphone's.

### **Ans(2):-**

### **A basic media query that adjusts the font size:-**

```
@media (max-width: 600px) {  
  
  body {  
  
    font-size: 14px;  
  
  }  
  
}
```

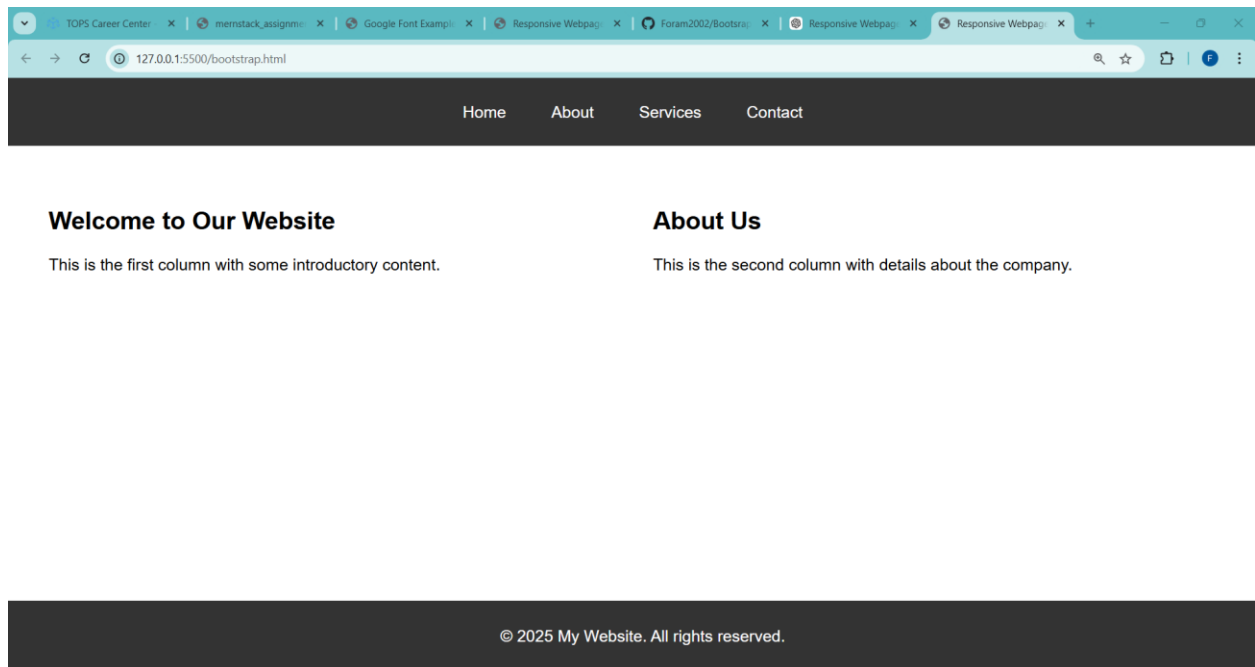
## **Lab Assignment**

```
bootstrap.html > html > head > style
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4    <meta charset="UTF-8">
5    <meta name="viewport" content="width=device-width, initial-scale=1.0">
6    <title>Responsive Webpage</title>
7    <style>
8      body {
9        font-family: Arial, sans-serif;
10       margin: 0;
11       padding: 0;
12     }
13     nav {
14       background-color: #333;
15       color: white;
16       padding: 10px;
17       text-align: center;
18     }
19     nav a {
20       color: white;
21       text-decoration: none;
22       padding: 14px 20px;
23       display: inline-block;
24     }
25     nav a:hover {
26       background-color: #575757;
27     }
28     .content {
29       display: flex;
30       padding: 20px;
31       justify-content: space-between;
32     }
33     .column {
34       flex: 1;
35       padding: 20px;
36     }
```

```
    .column {
      flex: 1;
      padding: 20px;
    }
    footer {
      background-color: #333;
      color: white;
      text-align: center;
      padding: 10px;
      position: fixed;
      bottom: 0;
      width: 100%;
    }
    @media (max-width: 768px) {
      nav {
        font-size: 14px;
      }
      .content {
        flex-direction: column;
        padding: 10px;
      }
      .column {
        padding: 10px;
        margin-bottom: 20px;
      }
      footer {
        font-size: 14px;
        position: relative;
      }
    }
```

```
1      }
2    }
3  </style>
4  </head>
5  <body>
6    <nav>
7      <a href="#home">Home</a>
8      <a href="#about">About</a>
9      <a href="#services">Services</a>
10     <a href="#contact">Contact</a>
11   </nav>
12   <div class="content">
13     <div class="column" id="home">
14       <h2>Welcome to Our Website</h2>
15       <p>This is the first column with some introductory content.</p>
16     </div>
17     <div class="column" id="about">
18       <h2>About Us</h2>
19       <p>This is the second column with details about the company.</p>
20     </div>
21   </div>
22   <footer>
23     <p>&copy; 2025 My Website. All rights reserved.</p>
24   </footer>
25 </body>
26 </html>
```

OUTPUT:-



**Ans (3):-**

<b><u>Web-Safe Fonts</u></b>	<b><u>Custom Web Fonts</u></b>
Fonts that are widely supported across all devices.	Fonts that are not installed on users' devices.
Arial, Times New Roman, Verdana.	Google Fonts.
Fast loading as they are already installed on most devices.	May slow down page loading as they need to be downloaded.
Limited customization options.	Highly customizable with different styles

**Why Custom Form:-**

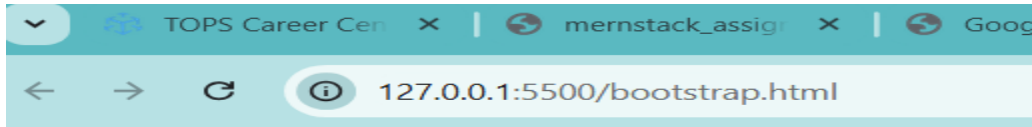
- ➔ Web-safe fonts are already installed on most devices.
- ➔ They provide consistent rendering across all devices and browsers, avoiding potential issues with font rendering on different platforms.

**Ans (4):-**

**Font-family property:-**

The font-family property in CSS is used to specify the font of the text on a webpage. It allows you to define a list of fonts in order of preference.

**Example:-**



# Hello, World!

This is a paragraph using the Roboto font.

---

```
bootstrap.html X Screenshot 2025-01-19 153215.png
bootstrap.html > html > head > title
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Blog Post Layout</title>
7   <link href="https://fonts.googleapis.com/css2?family=Merriweather:wght@700&family=Open+Sans:wght@400;600&display=swap" rel="stylesheet">
8   <style>
9     * {
10       margin: 0;
11       padding: 0;
12       box-sizing: border-box;
13     }
14     body {
15       font-family: 'Open Sans', sans-serif;
16       line-height: 1.6;
17       padding: 20px;
18       background-color: #f4f4f4;
19     }
20     .blog-post {
21       max-width: 800px;
22       margin: 0 auto;
23       background-color: white;
24       padding: 20px;
25       border-radius: 8px;
26       box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);
27     }
28     .title {
29       font-family: 'Merriweather', serif;
30       font-size: 36px;
31       font-weight: bold;
32       color: #333;
33       margin-bottom: 10px;
34     }
  </style>
</head>
</html>
```

```
}
.subtitle {
  font-family: 'Merriweather', serif;
  font-size: 22px;
  font-weight: 400;
  color: #666;
  margin-bottom: 20px;
}
.content {
  font-family: 'Open Sans', sans-serif;
  font-size: 18px;
  color: #444;
  line-height: 1.8;
  margin-bottom: 20px;
}
@media (max-width: 768px) {
  .title {
    font-size: 28px;
  }
  .subtitle {
    font-size: 20px;
  }
  .content {
    font-size: 16px;
  }
  body {
    padding: 10px;
  }
  .blog-post {
    padding: 15px;
  }
}
```

```
padding: 15px;
}
}
</style>
</head>
<body>
<div class="blog-post">
  <h1 class="title">Exploring the Beauty of Nature</h1>
  <h2 class="subtitle">A Journey Through the Wild</h2>
  <p class="content">
    Nature has a way of captivating us, drawing us in with its endless beauty and complexity. From the vast oceans to the towering mountains
  </p>
  <p class="content">
    The sights and sounds of nature are a reminder of how small we are in the grand scheme of the world. It is in these moments, away from t
  </p>
  <p class="content">
    Whether you're hiking through a dense forest or simply sitting by the ocean, nature offers an opportunity for reflection, relaxation, an
  </p>
</div>
</body>
</html>
```

### **OUTPUT:-**

# Exploring the Beauty of Nature

## A Journey Through the Wild

Nature has a way of captivating us, drawing us in with its endless beauty and complexity. From the vast oceans to the towering mountains, the forests to the deserts, every corner of the earth offers something unique to behold.

The sights and sounds of nature are a reminder of how small we are in the grand scheme of the world. It is in these moments, away from the hustle and bustle of modern life, that we truly experience peace and serenity.

Whether you're hiking through a dense forest or simply sitting by the ocean, nature offers an opportunity for reflection, relaxation, and rejuvenation. It's a timeless source of inspiration, beauty, and calm.