Media Queries Assignment

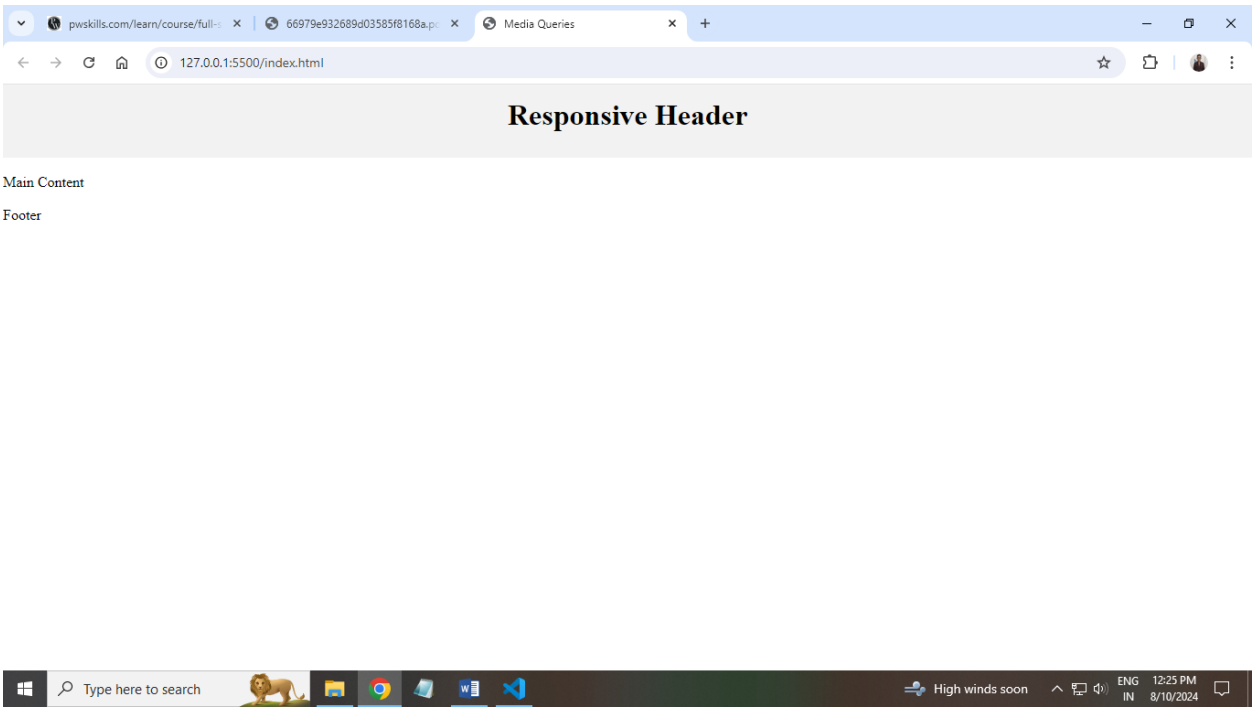
1. **Create a simple webpage with a header, a main content section, and a footer. Apply a media query that changes the background color of the header to blue when the screen width is less than 600px.**
   Ans: HTML Code:

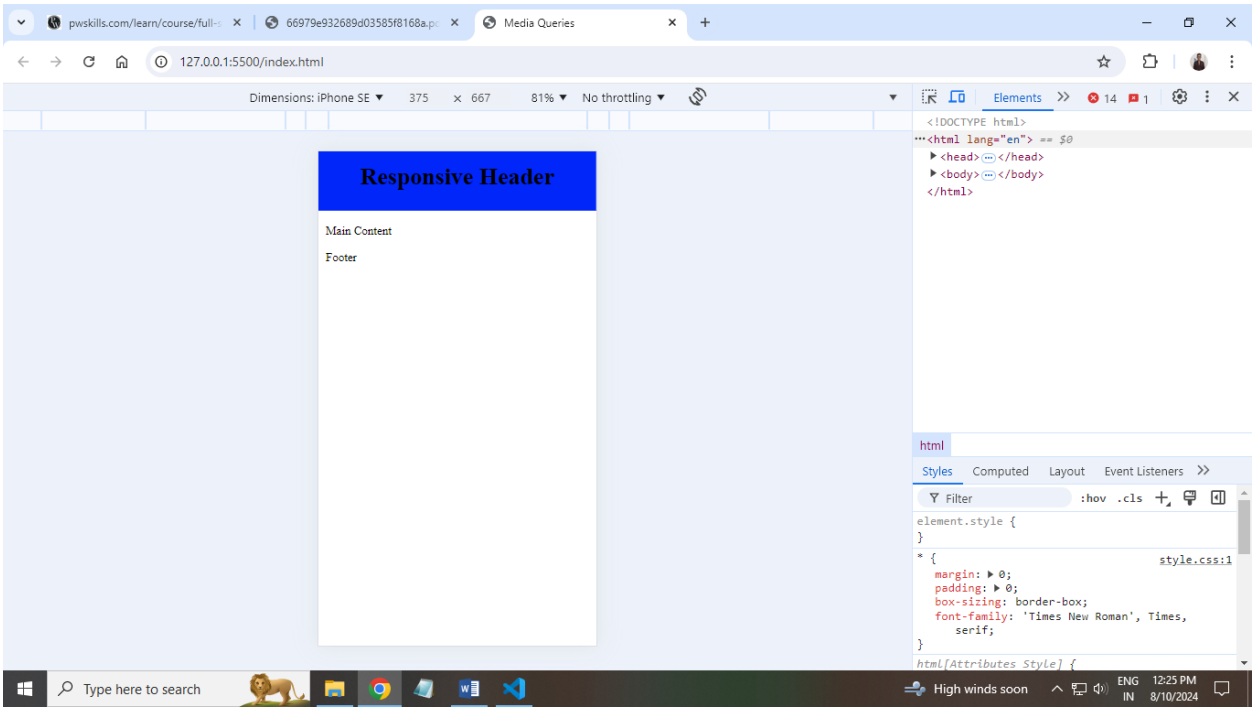
```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<link rel="stylesheet" href="style.css">
<title>Media Queries</title>
</head>
<body>

   <h1 id="main-heading">Responsive Header</h1> <br>
   <main>Main Content</main> <br>
   <footer>Footer</footer>

</body>
</html>
```

CSS Code:

```
* {
   margin: 0;
   padding: 0;
   box-sizing: border-box;
   font-family: 'Times New Roman', Times, serif;
}

#main-heading {
   text-align: center;
```

```
    background-color: #f2f2f2;
    height: 80px;
    padding: 15px 0;
}

@media only screen and (max-width: 600px) {

    #main-heading {
        background-color: blue;
    }

    main, footer {
        margin-left: 10px;
    }
}
```





2. **Create an image gallery with three images in a row. Use media queries to adjust the layout to two images in a row for screens smaller than 800px and one image in a row for screens smaller than 500px.**
Ans: HTML Code:

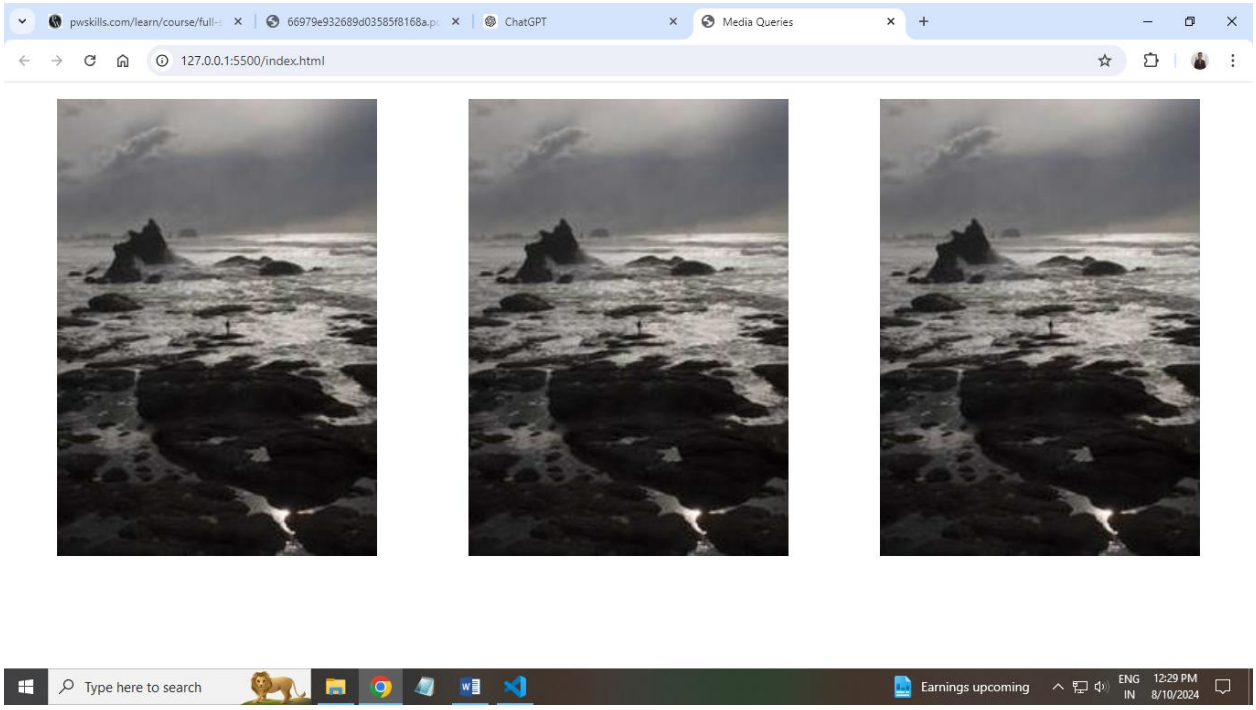
```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
 <link rel="stylesheet" href="style.css">
 <title>Media Queries</title>
</head>
<body>

   <div class="image-container">

      <img src="image1.jpg" alt="Image 1">
      <img src="image2.jpg" alt="Image 2">
      <img src="image3.jpg" alt="Image 3" id="image-3">
```

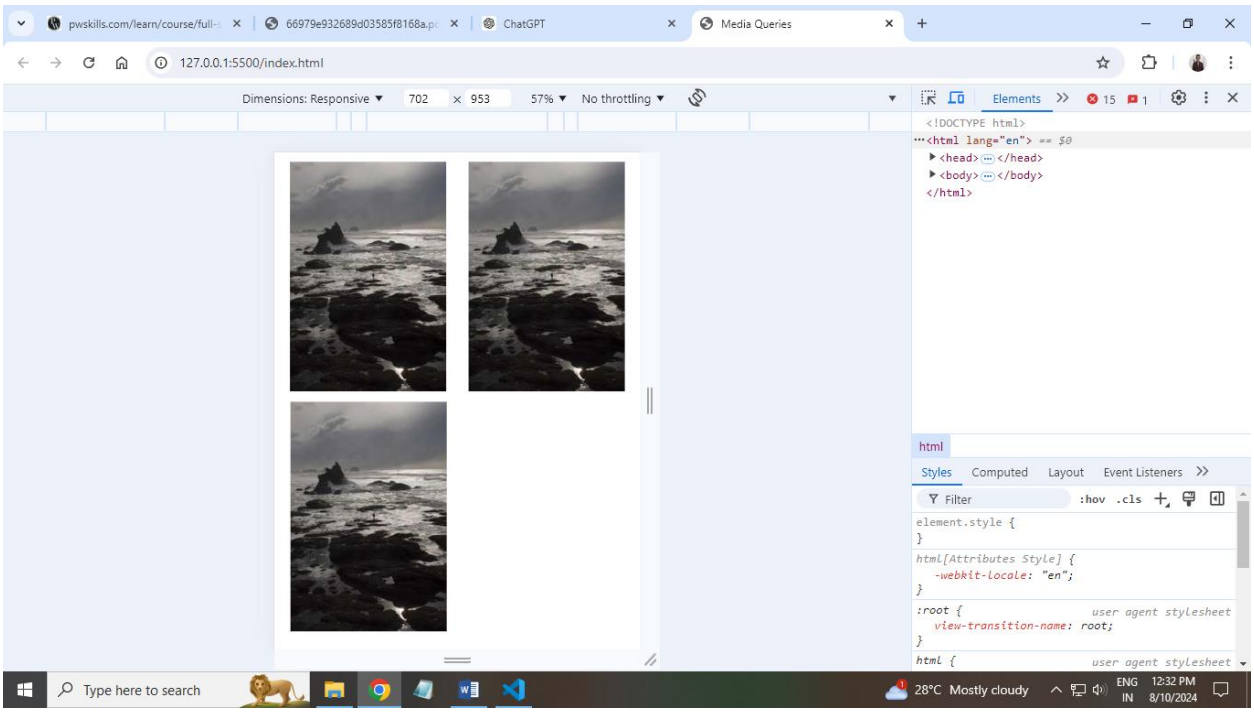
```
  </div>

</body>
</html>
```

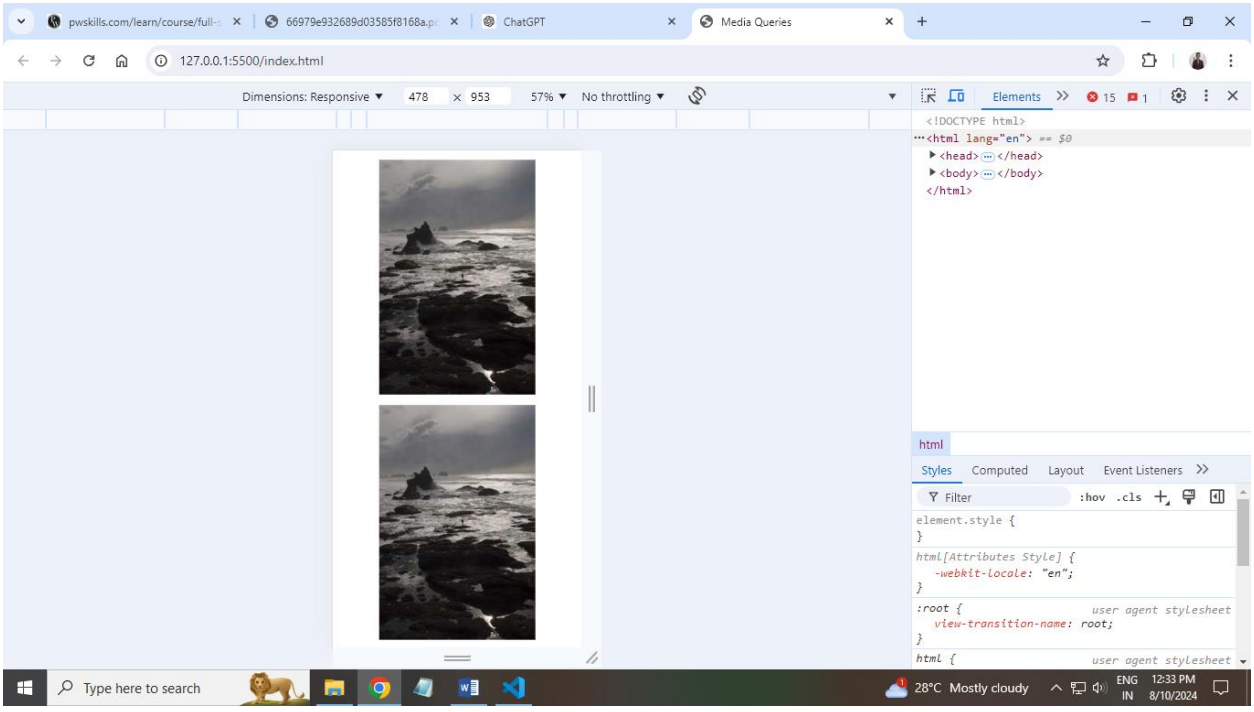
CSS Code:

```
/* Default layout: three images in a row */

.image-container {
  display: flex;
  flex-wrap: wrap;
  justify-content: space-around;
}

.image-container img {
  width: 350px;
  height: 500px;
  margin: 10px;
}

/* For screens smaller than 800px: two images in a row */

@media (max-width: 800px) {

  .image-container img {
    width: 300px;
    height: 440px;
  }

  #image-3 {
    margin-right: 350px;
  }
}
```

```
/* For screens smaller than 500px: one image in a row */

@media (max-width: 500px) {

   .image-container {
      flex-direction: column;
      align-items: center;
   }

   .image-container img {
      width: 300px;
      height: 450px;
   }

   #image-3 {
      margin-right: 0;
   }
}
```




pwskills.com/learn/course/full-s
66979e932689d03585f8168a.p
ChatGPT
Media Queries
127.0.0.1:5500/index.html
Dimensions: Responsive 702 x 953 57% No throttling
Elements
15 1
<!DOCTYPE html>
<html lang="en"> == $0
<head> </head>
<body> </body>
</html>
html
Styles Computed Layout Event Listeners
Filter :hov .cls
element.style {
}
html[Attributes Style] {
-webkit-locale: "en";
}
:root { user agent stylesheet
view-transition-name: root;
}
html { user agent stylesheet
Type here to search
28°C Mostly cloudy
ENG IN 12:32 PM 8/10/2024


pwskills.com/learn/course/full-s
66979e932689d03585f8168a.p
ChatGPT
Media Queries
127.0.0.1:5500/index.html
Dimensions: Responsive 478 x 953 57% No throttling
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15 1
<!DOCTYPE html>
<html lang="en"> == $0
<head> </head>
<body> </body>
</html>
html
Styles Computed Layout Event Listeners
Filter :hov .cls
element.style {
}
html[Attributes Style] {
-webkit-locale: "en";
}
:root { user agent stylesheet
view-transition-name: root;
}
html { user agent stylesheet
Type here to search
28°C Mostly cloudy
ENG IN 12:33 PM 8/10/2024

3. **Create a navigation bar with five links. Apply a media query that converts the navigation into a vertical list for screens smaller than 768px and also changes the background color to gray.**
   Ans: HTML Code:

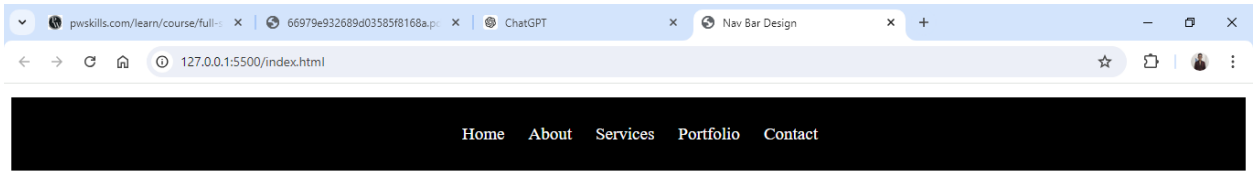
```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<link rel="stylesheet" href="style.css">
<title>Nav Bar Design</title>
</head>
<body>

  <header>
    <nav>
      <ul>
        <li><a href="index.html">Home</a></li>
        <li><a href="about.html">About</a></li>
        <li><a href="services.html">Services</a></li>
        <li><a href="portfolio.html">Portfolio</a></li>
        <li><a href="contact.html">Contact</a></li>
      </ul>
    </nav>
  </header>

</body>
</html>
```

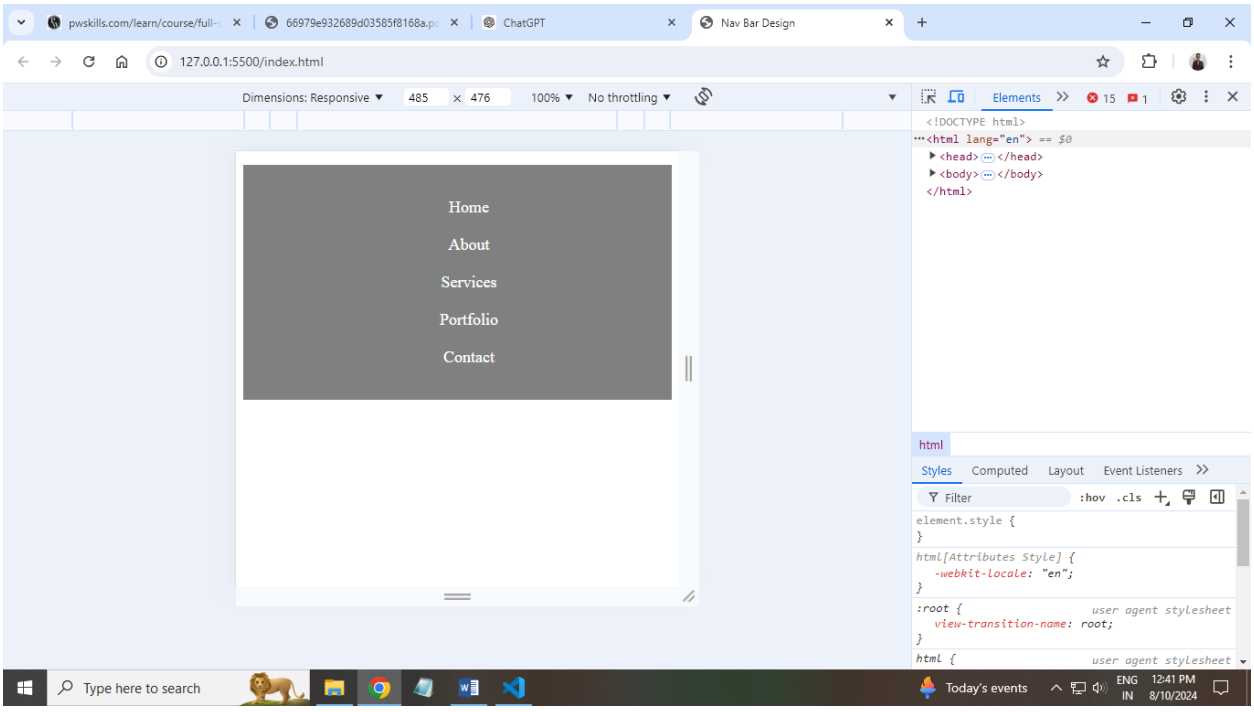
CSS Code:

```
header {
  height: 80px;
  background-color: black;
```

```
    color: white;
    display: flex;
    align-items: center;
    justify-content: center;
    margin-top: 15px;
}

ul {
    display: flex;
    list-style: none;
    margin-right: 15px;
}

a {
    text-decoration: none;
    color: white;
    margin: 0 8px;
    padding: 5px 5px;
    font-size: 19px;
    transition: all 0.7s ease;
}

a:hover {
    color: red;
}

@media screen and (max-width: 768px) {

    header {
        height: auto;
        padding: 10px 0px;
        background-color: gray;
    }

    ul {
```

```
        flex-direction: column;
        text-align: center;
    }

    ul li {
        margin: 10px;
    }

    a {
        font-size: 18px;
        cursor: pointer;
    }

    a:hover {
        color: red;
    }

    #main-para {
        font-size: 16.5px;
        text-align: justify;
        margin: 10px;
        padding: 10px;
    }
}
```





4. **Create a grid based layout containing four grid items which arranges them as the screen size changes.**
   Ans: HTML Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<link rel="stylesheet" href="style.css">
<title>Media Queries</title>
</head>

<body>

   <div class="grid-container">
      <div class="grid-item" id="box-1">Box 1</div>
      <div class="grid-item" id="box-2">Box 2</div>
      <div class="grid-item" id="box-3">Box 3</div>
      <div class="grid-item" id="box-4">Box 4</div>
   </div>

</body>
</html>
```

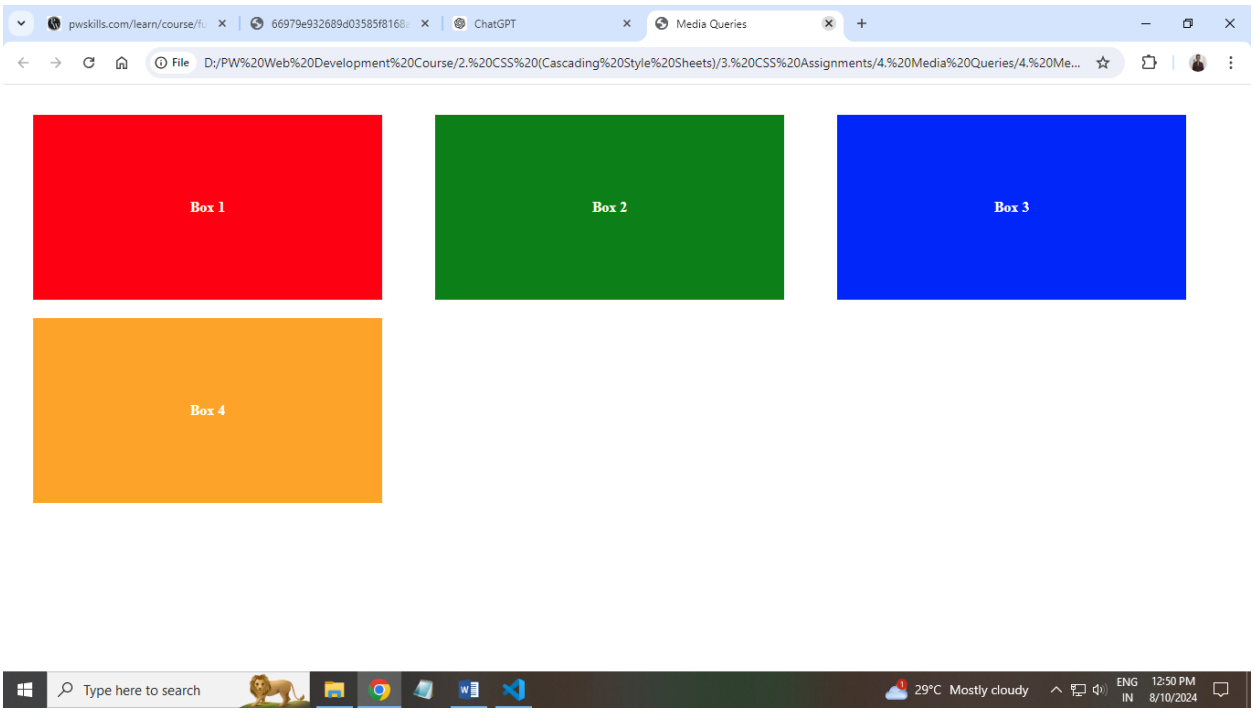
CSS Code:

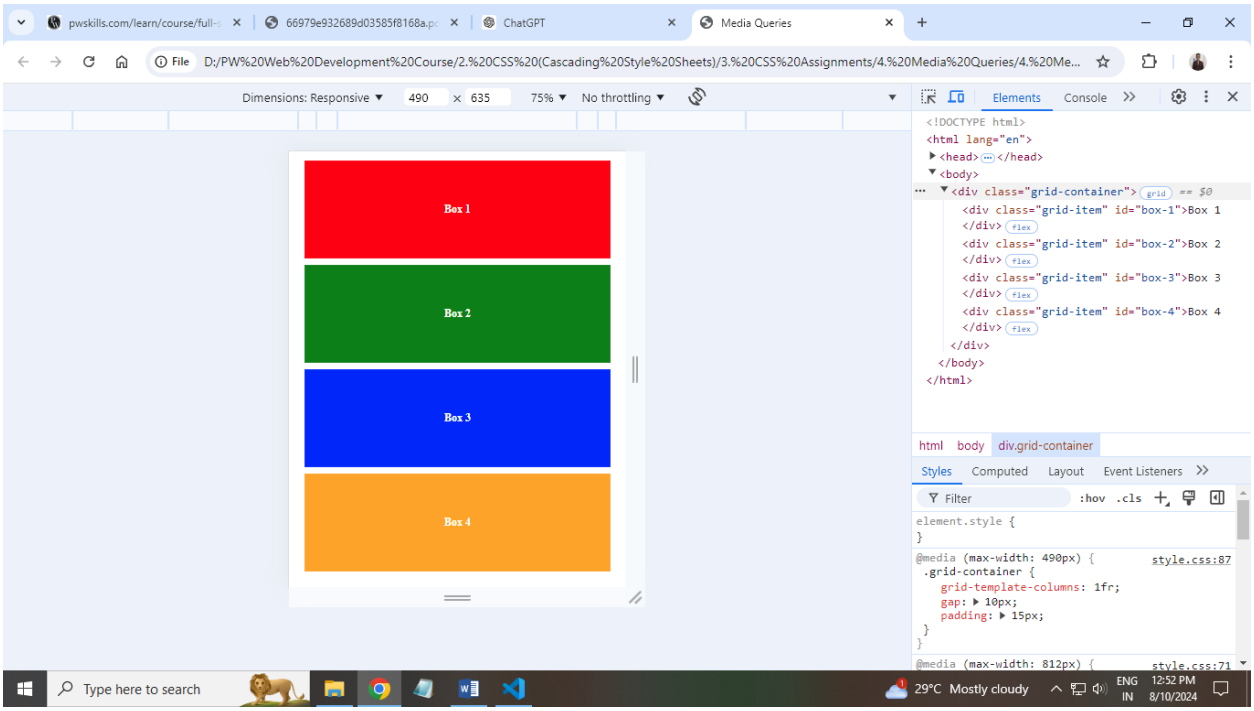
```
.grid-container {
   display: grid;
   grid-template-columns: repeat(3, 1fr);
   gap: 20px;
   padding: 25px;
}

.grid-item {
   display: flex;
   justify-content: center;
   align-items: center;
   font-weight: bold;
```

```
    width: 380px;
    height: 200px;
    color: white;
}

#box-1 {
    background-color: red;
    border: 1px solid red;
}

#box-2 {
    background-color: green;
    border: 1px solid green;
}

#box-3 {
    background-color: blue;
    border: 1px solid blue;
}

#box-4 {
    background-color: orange;
    border: 1px solid orange;
}

/* Media Query for iPad Air (typically 820px wide) */

@media (max-width: 820px) {

    .grid-container {
        grid-template-columns: 1fr;
        gap: 20px;
    }

    .grid-item {
```

```
    width: 100%;
    height: 180px;
  }
}

/* Media Query for Tablets (768px to 1024px wide) */

@media (max-width: 1024px) and (min-width: 768px) {

  .grid-container {
    grid-template-columns: repeat(2, 1fr);
  }

  .grid-item {
    width: 300px;
    height: 180px;
  }
}

/* Media Query for iPhones (up to 812px wide) */

@media (max-width: 812px) {

  .grid-container {
    grid-template-columns: 1fr;
    gap: 15px;
    padding: 20px;
  }

  .grid-item {
    width: 100%;
    height: 160px;
  }
}
```

```
/* Media Query for Mobile Phones (up to 480px wide) */

@media (max-width: 480px) {

   .grid-container {
      grid-template-columns: 1fr;
      gap: 10px;
      padding: 15px;
   }

   .grid-item {
      width: 100%;
      height: 140px;
   }
}
```





5. **Create the below given layout using the flexbox in css, which should adapt itself on mobile screen as per given below output.**
   Ans: HTML Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<link rel="stylesheet" href="style.css">
<title>Media Query 5</title>
</head>

<body>

  <div class="container">
    <div class="box-1">Box 1</div>
```

```
      <div class="middle-boxes">
         <div class="box-2">Box 2</div>
         <div class="box-3">Box 3</div>
      </div>

      <div class="box-4">Box 4</div>

   </div>

</body>
</html>
```

CSS Code:

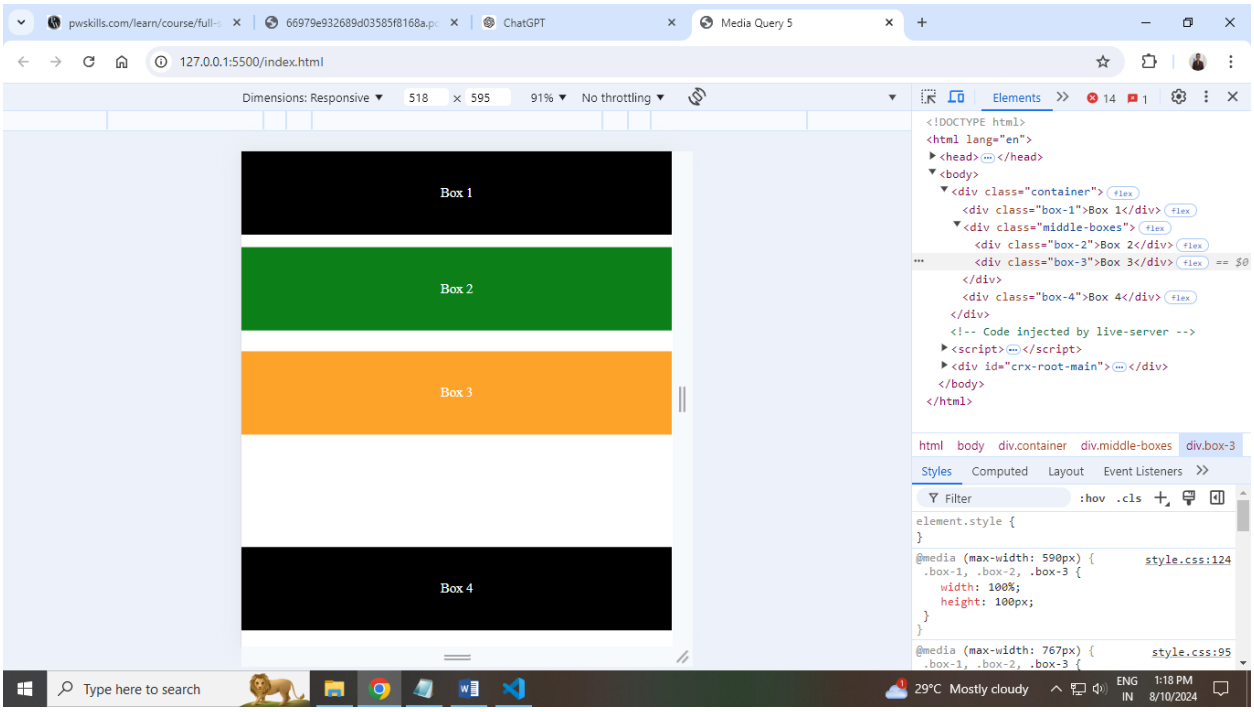
```
* {
   margin: 0;
   padding: 0;
   box-sizing: border-box;
   font-family: 'Times New Roman', Times, serif;
}

body,
html {
   height: 100%;
}

.container {
   display: flex;
   justify-content: space-between;
   height: 100%;
}

.box-1,
.box-4 {
   width: 100px;
```

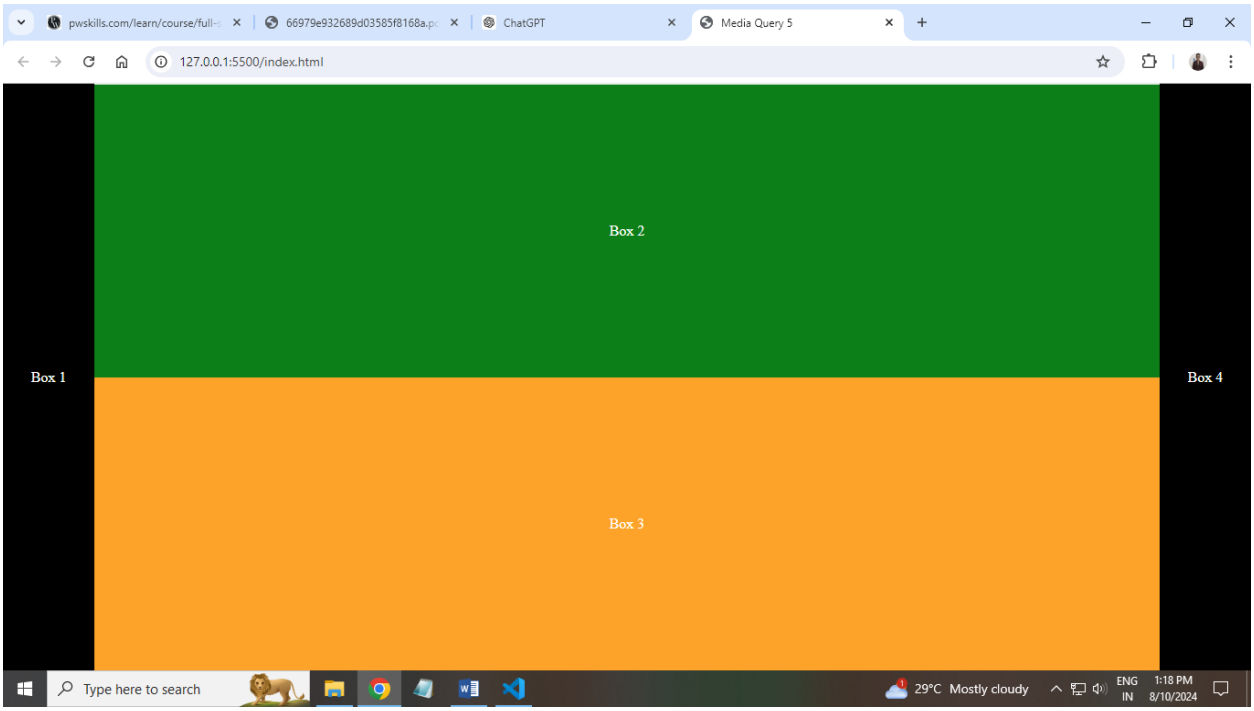
```
    height: 641px;
    background-color: black;
    color: white;
    display: flex;
    justify-content: center;
    align-items: center;
}

.middle-boxes {
    display: flex;
    flex-direction: column;
    justify-content: center;
    align-items: center;
}

.box-2,
.box-3 {
    width: 1166px;
    height: 320px;
    color: white;
    display: flex;
    justify-content: center;
    align-items: center;
}

.box-2 {
    background-color: green;
}

.box-3 {
    background-color: orange;
}

@media (max-width: 1024px) {
```

```
    .container {
        flex-direction: column;
        justify-content: flex-start;
        align-items: center;
    }

    .box-1,
    .box-2,
    .box-3 {
        width: 250px;
        height: 200px;
        margin-bottom: 20px;
    }

    .middle-boxes {
        width: 100%;
        gap: 10px;
    }

    .box-4 {
        width: 250px;
        height: 150px;
        margin-top: 20px;
    }
}

/* Responsive Design for Mobile Phones (up to 767px) */

@media (max-width: 767px) {

    .container {
        flex-direction: column;
        justify-content: flex-start;
        align-items: center;
    }
```

```
    .box-1,
    .box-2,
    .box-3 {
        width: 200px;
        height: 150px;
        margin-bottom: 15px;
    }

    .middle-boxes {
        width: 100%;
        gap: 10px;
    }

    .box-4 {
        width: 200px;
        height: 100px;
        margin-top: 20px;
    }
}

/* Responsive Design for Small Devices (iPhones) */

@media (max-width: 590px) {
    .container {
        display: flex;
        flex-direction: column;
    }

    .box-1,
    .box-2,
    .box-3
    {
        width: 100%;
        height: 100px;
```

```
    }

    .box-4 {
        width: 100%;
        height: 100px;
        margin-top: 120px;
    }
}
```




pwskills.com/learn/course/full-s
66979e932689d03585f8168a.pc
ChatGPT
Media Query 5
127.0.0.1:5500/index.html
Box 1
Box 2
Box 3
Box 4
Type here to search
29°C Mostly cloudy
ENG
IN
1:18 PM
8/10/2024