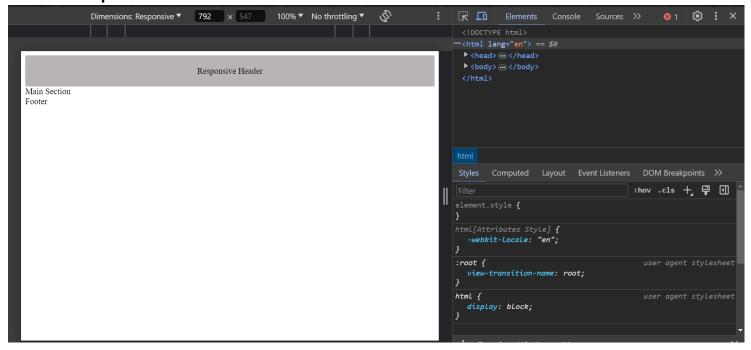
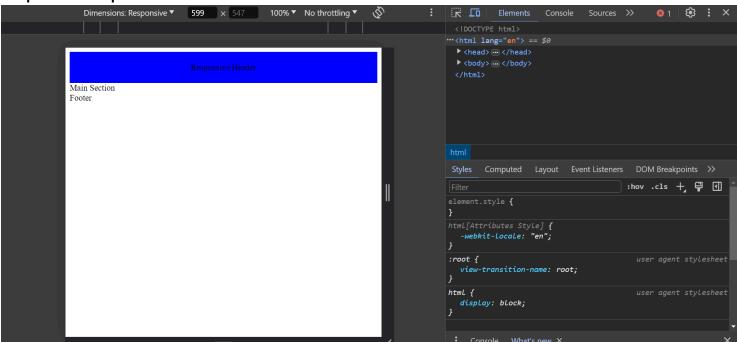
Media Query Assignment

Assignment Question

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.

```
1 <!DOCTYPE html>
2 <html lang="en">
  <head>
     <meta charset="UTF-8">
      <meta name="viewport" content="width=device-width, initial-scale=1.0">
      <title>Assignment</title>
      <style>
         header {
            background-color: rgb(189, 184, 184);
            padding: 20px;
11
            text-align: center;
12
         @media screen and (max-width: 600px) {
13
         header {
            background-color: blue;
15
17
         </style>
19 </head>
20 <body>
      <header>
         Responsive Header
     </header>
     <main>
         Main Section
     </main>
      <Footer>
         Footer
      </Footer>
30 </body>
31 </html>
```

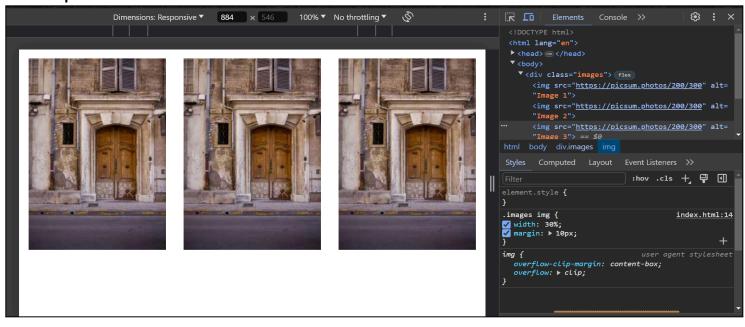




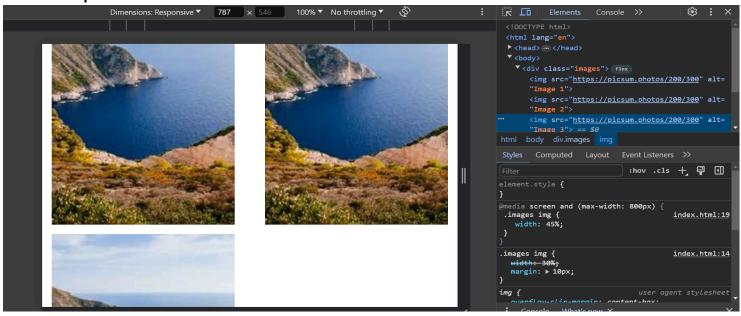
2. Create an image gallery with three images in a row. Use media queries to adjust the layout to two images in a row for screens smaller than 800px and one image in a row for screens smaller than 500px.

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
         <meta charset="UTF-8" />
         <meta name="viewport" content="width=device-width, initial-scale=1.0" />
         <title>Document</title>
7 </head>
8 <style>
         .images {
               display: flex;
11
               flex-wrap: wrap;
               justify-content: space-between;
12
13
         .images img {
               width: 30%;
               margin: 10px;
         @media screen and (max-width: 800px) {
               .images img {
               width: 45%;
21
         }
         }
         @media screen and (max-width: 500px) {
               .images img {
               width: 100%;
         }
28 </style>
29 <body>
         <div class="images">
               <img src="https://picsum.photos/200/300" alt="Image 1" />
               <img src="https://picsum.photos/200/300" alt="Image 2" />
               <img src="https://picsum.photos/200/300" alt="Image 3" />
34 </div>
35 </body>
36 </html>
```

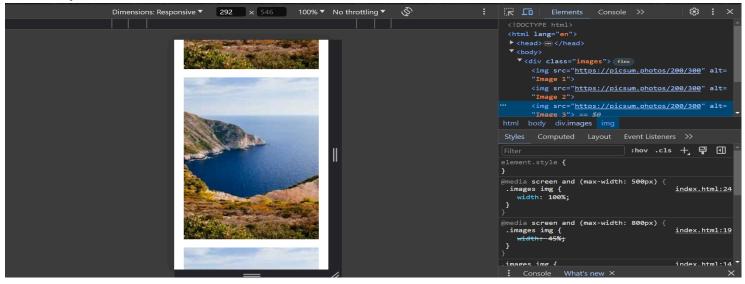
First Output:



Second Output:

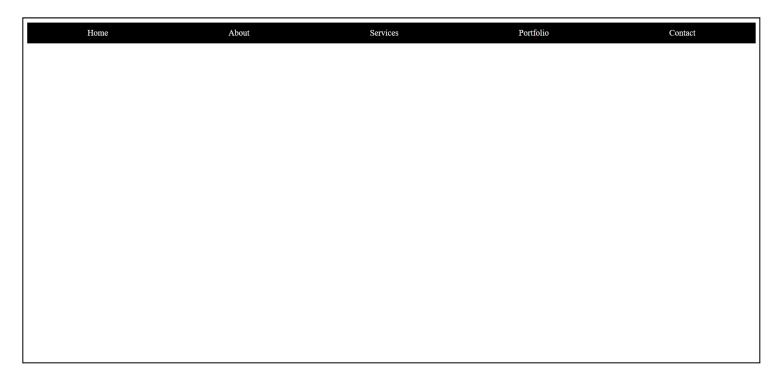


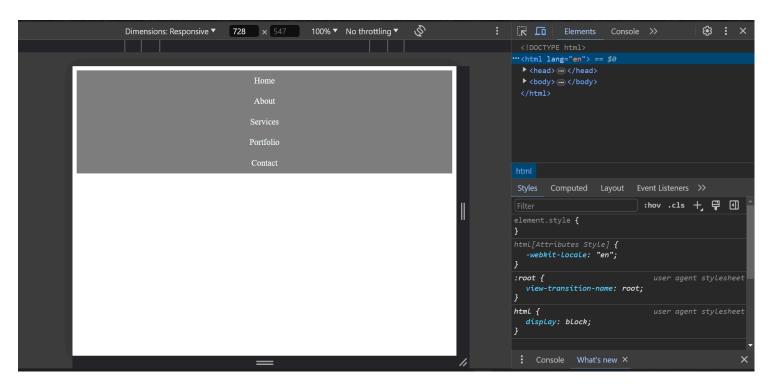
Third Output:



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.

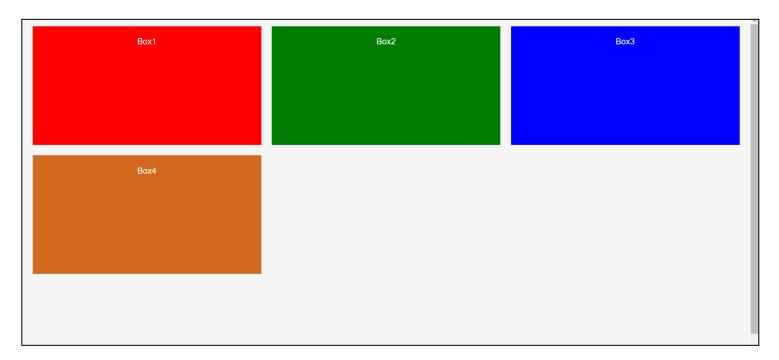
```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
         <meta charset="UTF-8" />
         <meta name="viewport" content="width=device-width, initial-scale=1.0" />
         <title>Document</title>
         <style>
               .navbar {
                     display: flex;
                     justify-content: space-around;
                     background-color: black;
11
12
               }
               .navbar a {
                     text-decoration: none;
                     padding: 10px;
                     color: white;
               @media screen and (max-width: 768px) {
               .navbar {
                     flex-direction: column;
                     align-items: center;
                     background-color: gray;
         </style>
26 </head>
27 <body>
        <nav class="navbar">
               <a href="#">Home</a>
               <a href="#">About</a>
               <a href="#">Services</a>
               <a href="#">Portfolio</a>
               <a href="#">Contact</a>
         </nav>
35 </body>
```





4. Create a grid based layout containing four grid items which arranges them as the screen size changes.

```
<!DOCTYPE html>
2 <html lang="en">
         <meta charset="UTF-8" />
         <meta name="viewport" content="width=device-width, initial-scale=1.0" />
         <title>Responsive Grid Layout Example</title>
         <style>
               body {
                     margin: 0;
                     font-family: Arial, sans-serif;
               }
               .grid-container {
                     display: grid;
                     grid-template-columns: 1fr;
                     gap: 20px;
                     padding: 20px;
                     background-color: #f5f5f5;
                     min-height: 100vh;
               .item {
                     background-color: #ddd;
                     padding: 20px;
                     text-align: center;
               .header {
                     background-color: red;
                     color: white;
               }
               .sidebar {
                     background-color: green;
                     color: white;
               .main {
                     background-color: blue;
                     color: white;
               }
               .footer {
                     background-color: chocolate;
                     color: white;
               @media screen and (min-width: 768px) {
               .grid-container {
                     grid-template-columns: repeat(3, 1fr);
                     grid-template-areas:
               }
51 </style>
        <div class="grid-container">
               <div class="item header">Box1</div>
               <div class="item sidebar">Box2</div>
               <div class="item main">Box3</div>
               <div class="item footer">Box4</div>
         </div>
60 </body>
```





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

```
<!DOCTYPE html>
<html lang="en">
      <meta charset="UTF-8" />
      <meta name="viewport" content="width=device-width, initial-scale=1.0" />
      <title>Responsive Flex Layout Example</title>
      <style>
            body {
                  margin: 0;
                  font-family: Arial, sans-serif;
            .container {
                  display: flex;
                  flex-direction: column;
                  min-height: 100vh;
                  background-color: #f5f5f5;
            .header,
            .footer {
                  background-color: #333;
                  color: white;
                  padding: 20px;
                  text-align: center;
            .main {
                  display: flex;
                  flex-direction: column;
                  flex: 1;
            .sidebar,
            .content {
                  background-color: #ddd;
                  padding: 20px;
                  text-align: center;
            .sidebar {
                  background-color: #66cc99;
                  color: white;
            .content {
                  background-color: #ff9933;
                  color: white;
            @media screen and (min-width: 768px) {
                        flex-direction: row;
            .sidebar,
            .content {
                  flex: 1;
      </style>
      <div class="container">
            <div class="header">Header</div>
            <div class="main">
                  <div class="sidebar">Sidebar</div>
                  <div class="content">Main Content
            <div class="footer">Footer</div>
```



