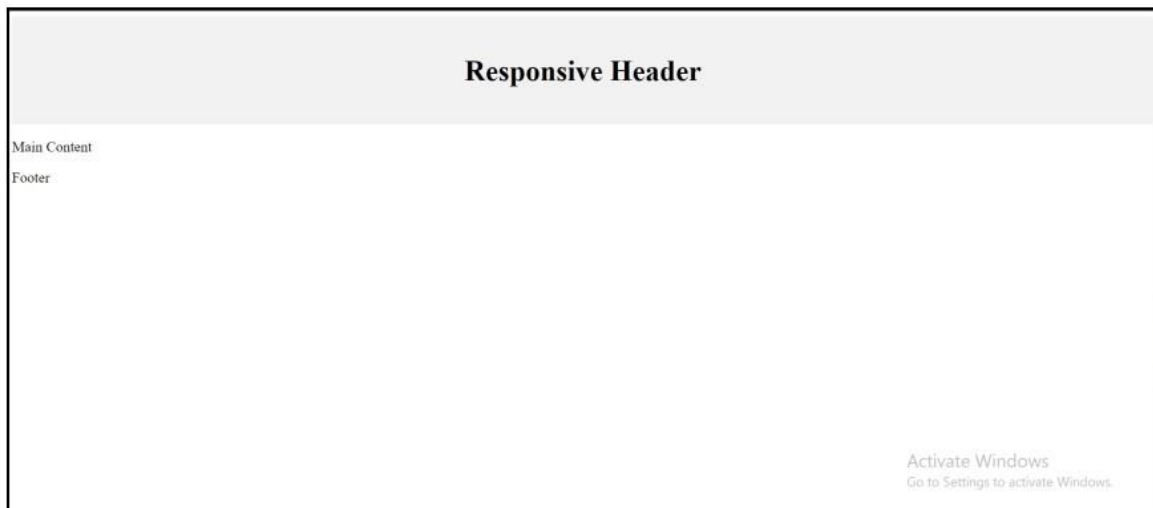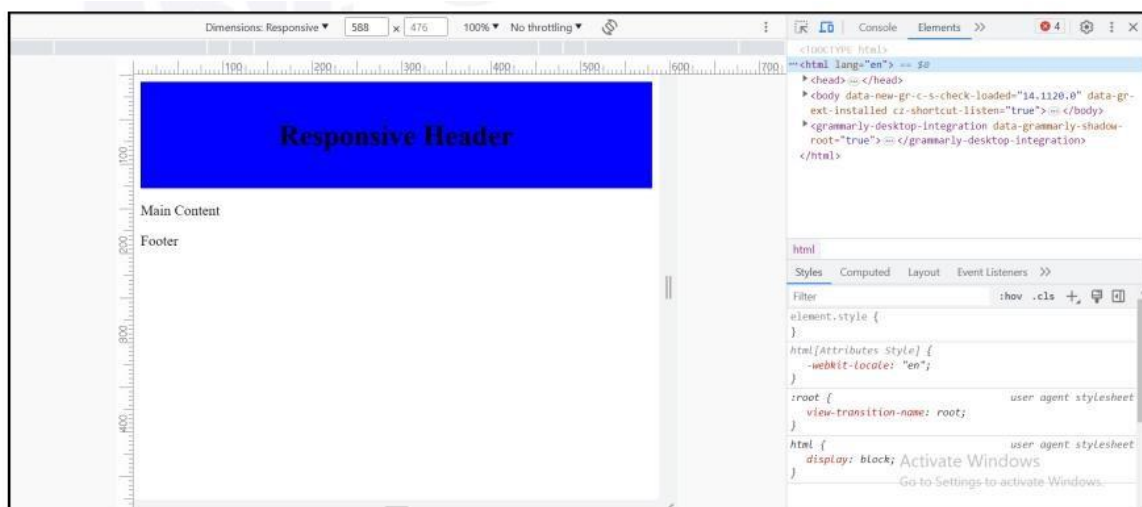## Task 1:

Problem Statement:

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.

Expected Outputs Normal

Output :

Responsive Output:

```html
<!DOCTYPE html> <html lang="en">
<head>
  <meta charset="UTF8">
      <meta name="viewport" content="width=devicewidth, initial-scale=1.0">
          <title>Media Queries</title>
  <link rel="stylesheet" href="media1.css">
</head>
<body>
      <div class="container">
    <div class="header">
      <h1>Responsive Header</h1>
    </div>
              <div class="main">Main content</div>
```
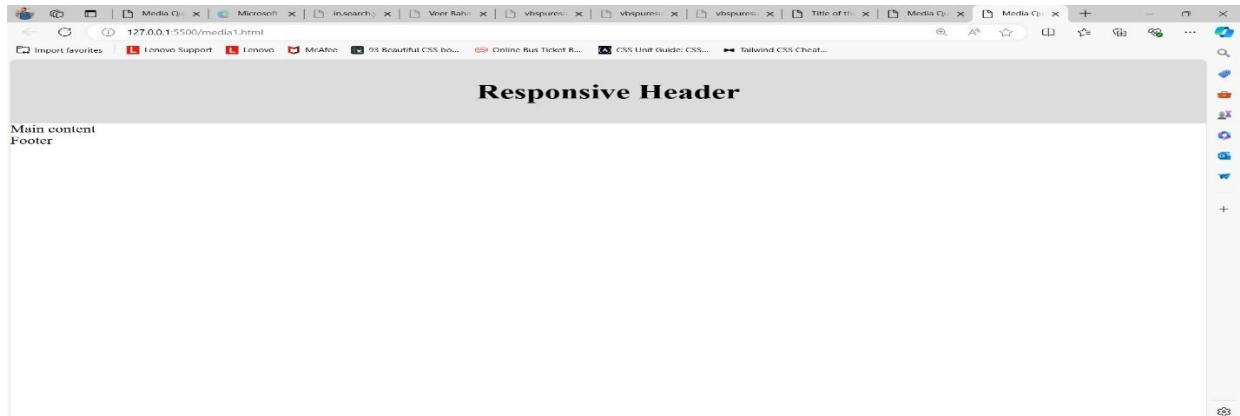
```html
    <div
class="footer">Footer</
div>

   </div>

</body>

</html>
```

```css
*{    margin:

0;   padding:

0;

}

.header{

background-color:

gainsboro;    height:

100px;    width: 100%;

display: flex;    justify-

content: center;    align-

items: center;

}

@media(maxwidth:60

0px){    .header{
background-color:
blue;

   }
```
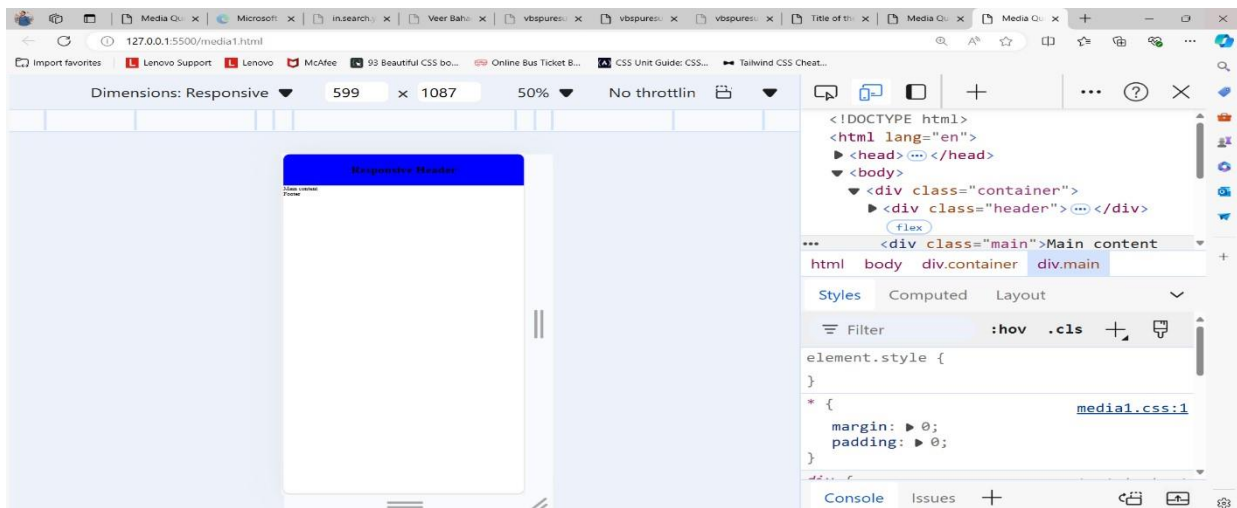
```
}
```

Normal:

Responsive:

Task 2:
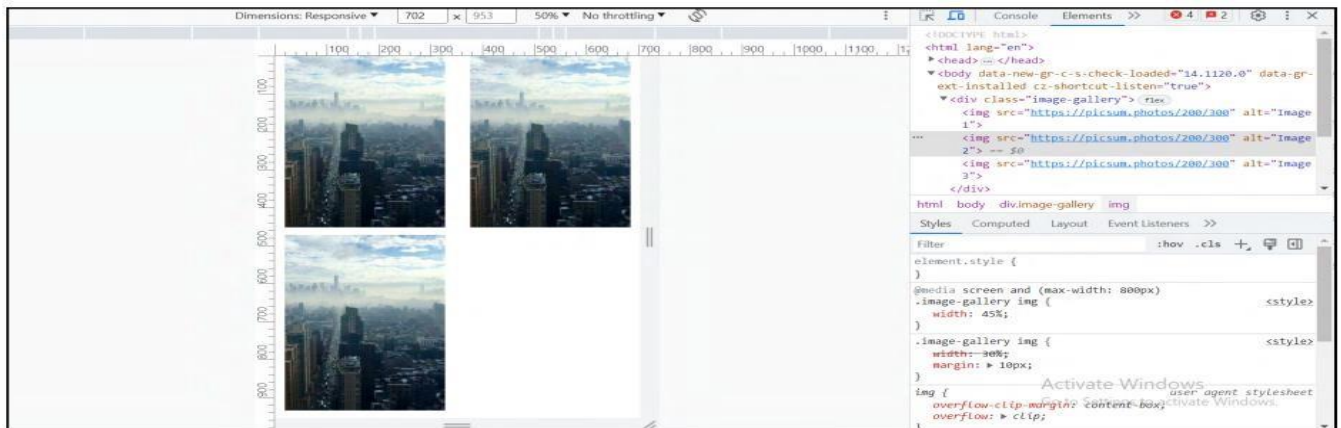
Problem Statement:

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.
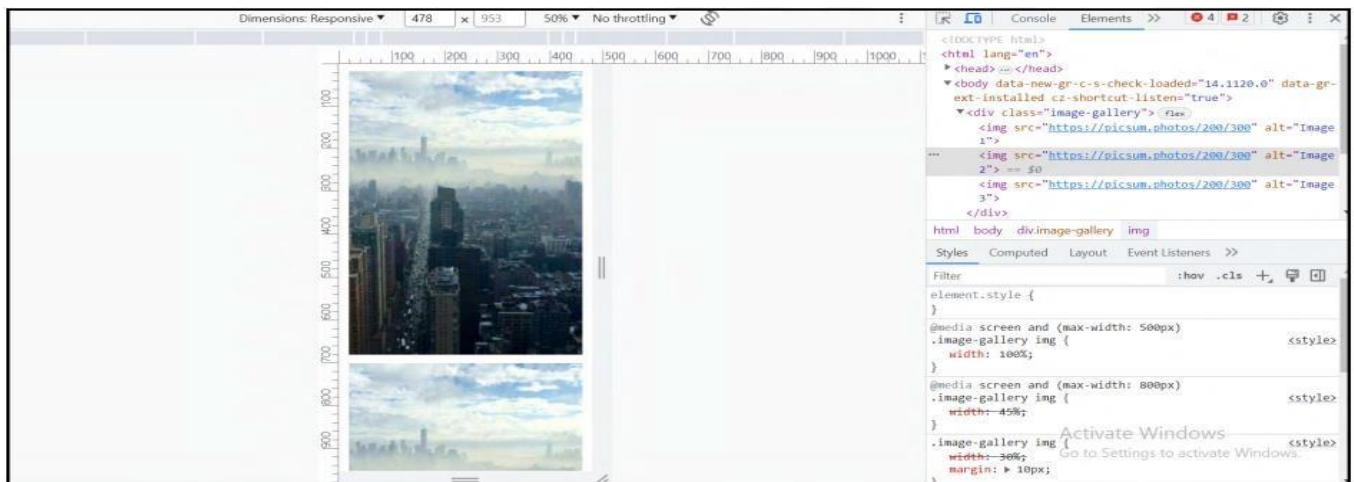
Expected Output :

First Output

Second Output

Third Output

Solution:

Code(HTML)

<!DOCTYPE *html*>

<html *lang*="en">

<head>

<meta *charset*="UTF-8">

```html
<meta name="viewport" content="width=devicewidth, initial-scale=1.0">
<title>Media Queries</title>
<link rel="stylesheet" href="media2.css">
</head>
<body>
<div class="container">
<img src="Assets/img.jpg">
<img src="Assets/img.jpg">
<img src="Assets/img.jpg">
</div>
</body>
</html>
```

Code(CSS)

```css
*{
  margin: 0;    padding: 0;    box-sizing: border-box;
```

```css
}

.container{    border: 2px
solid  black;        width:
700px;     margin: 0 auto;
display: grid;
      grid-
templatecolumns: 1fr 1fr
1fr;   gap: 20px;
}
.container img{
width: 100%;
height: auto;
}
@media(maxwidth:8
00px){    .container{
display: grid;
              grid-
templatecolumns: 1fr 1fr;
    }
}
@media(max-
width:500px){
.container{
display: grid;
```
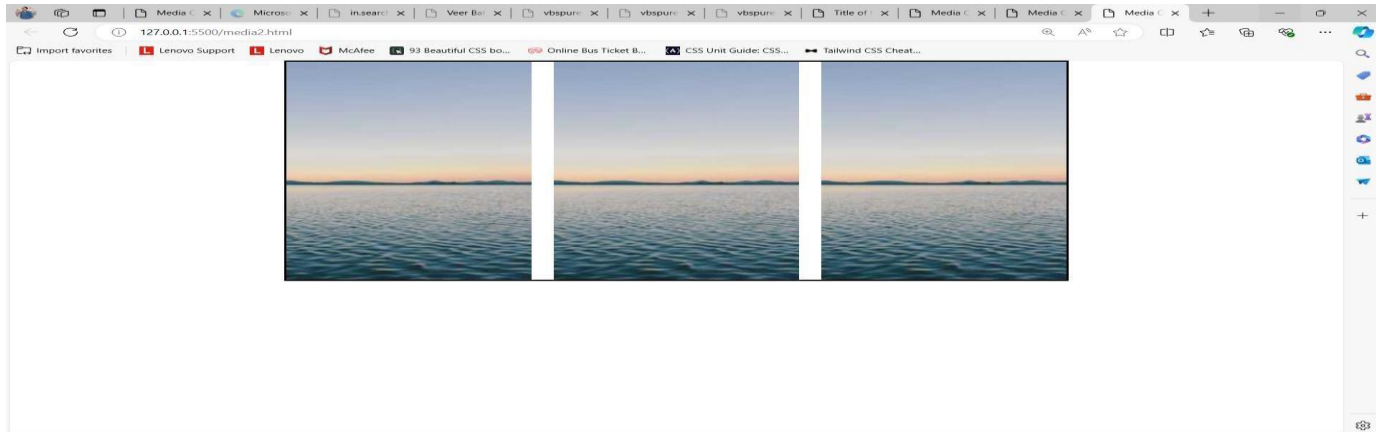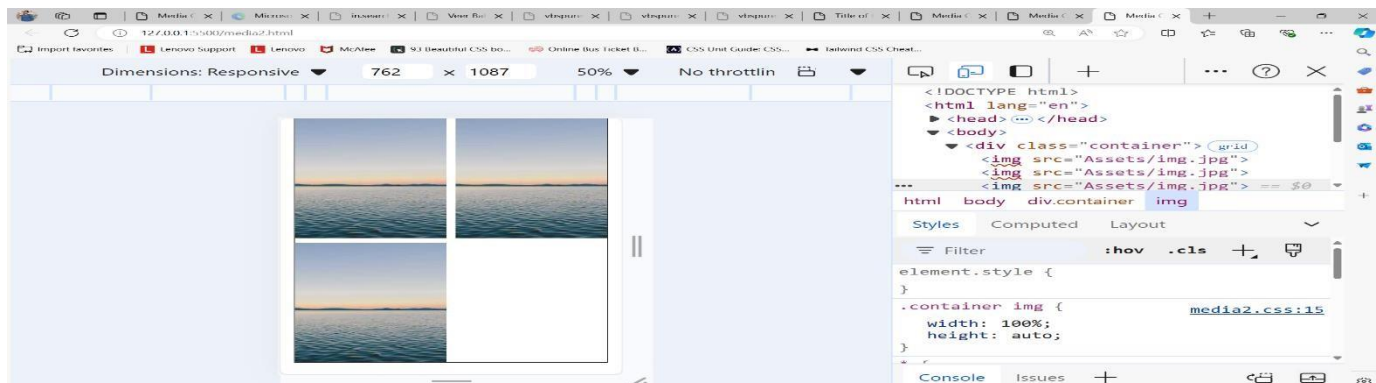
```
                    grid-
templatecolumns: 1fr;

    }

}
```
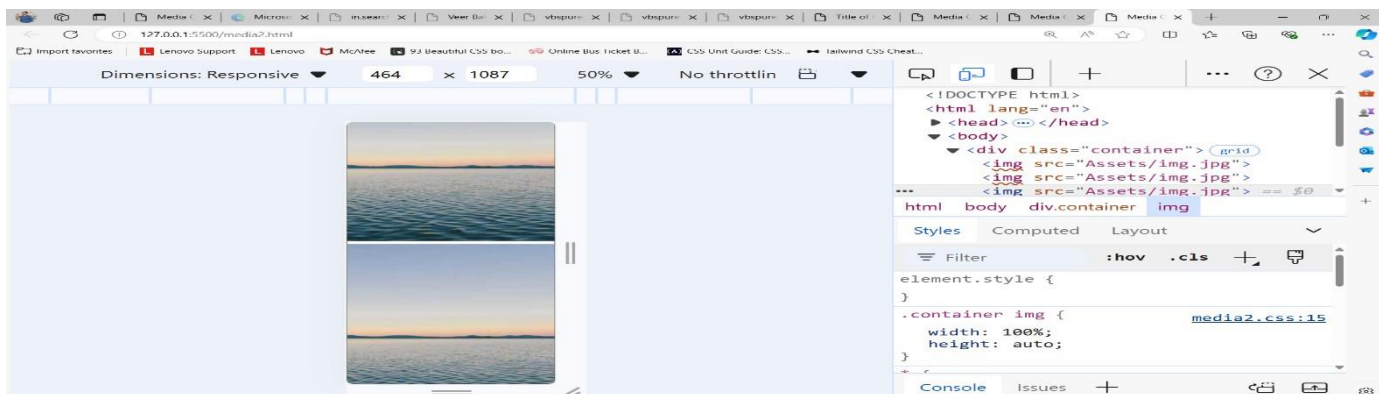
Output

First OutPut
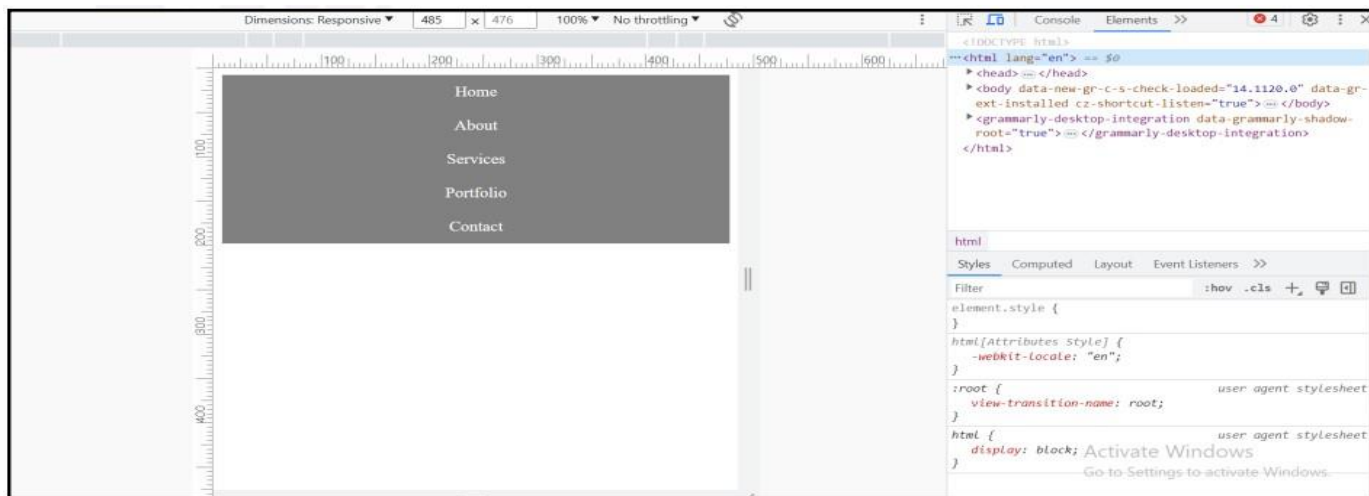

Second OutPut

Third OutPut

Task 3:

Problem Statement:

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.

Expected Outputs

Responsive OutPut

Solution:

Code(HTML)

```
<!DOCTYPE html> <html

lang="en">

<head>
```

```html
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Media Queries</title>
    <link rel="stylesheet" href="media3.css">
</head>
<body>
    <div class="container">
     <div class="navbar">
       <a href="#">Home</a>
       <a href="#">About</a>
       <a href="#">Sevices</a>
       <a href="#">Potfolio</a>
<a href="#">Contact</a>
     </div>
    </div>
</body>
</html>
```

Code(CSS)

```css
*{    margin: 0;
padding: 0;    box-sizing:
border-box;
}
```

```css
.container{    border:
2px solid red;
padding: 10px;
height: 100vh;    width:
100vw;
}
.navbar{    padding:
15px;    background-
color: black;    color:
white;    display: flex;
align-items: center;
justify-content:
spacearound;
}
.navbar>a{    text-
decoration: none;    color:
white;

}
@media(max-
width:768px){
.navbar{
display: flex;
flex-direction:
column;
```
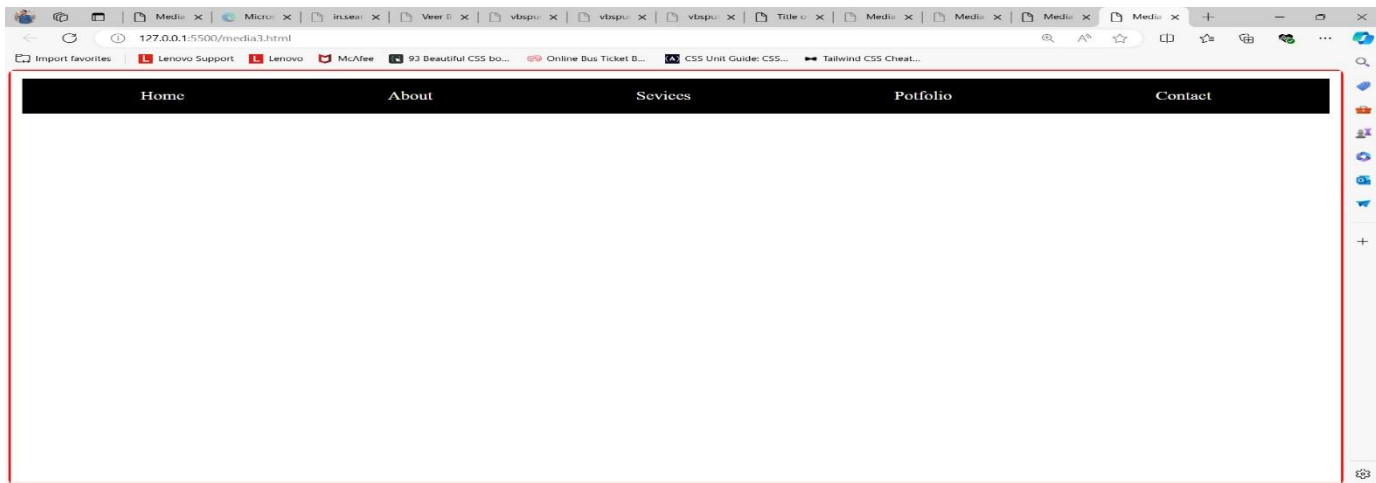
```
        gap: 30px;

    }

}
```

<p align="center" style="color:red">OutPut Normal:</p>

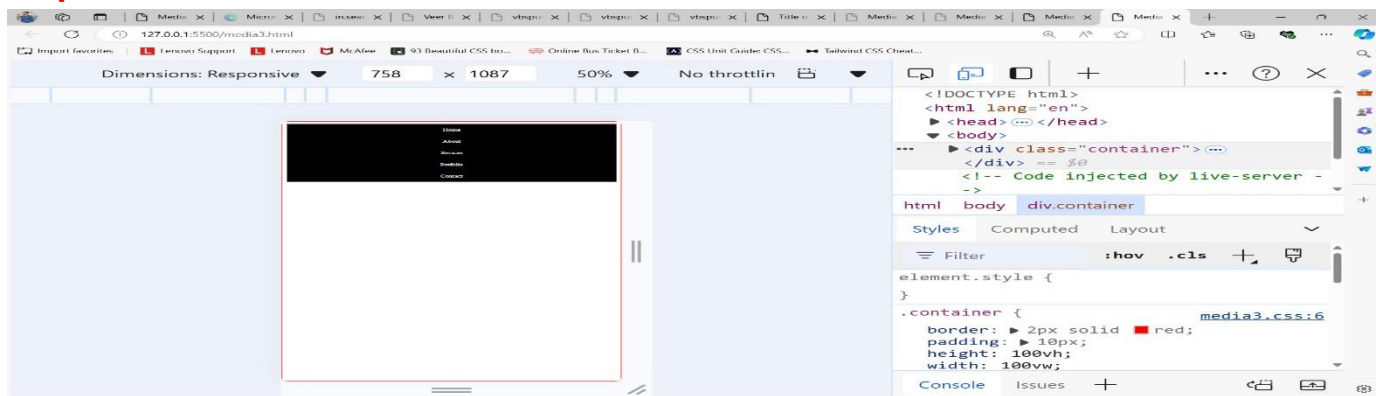Responsive:

Task 4:

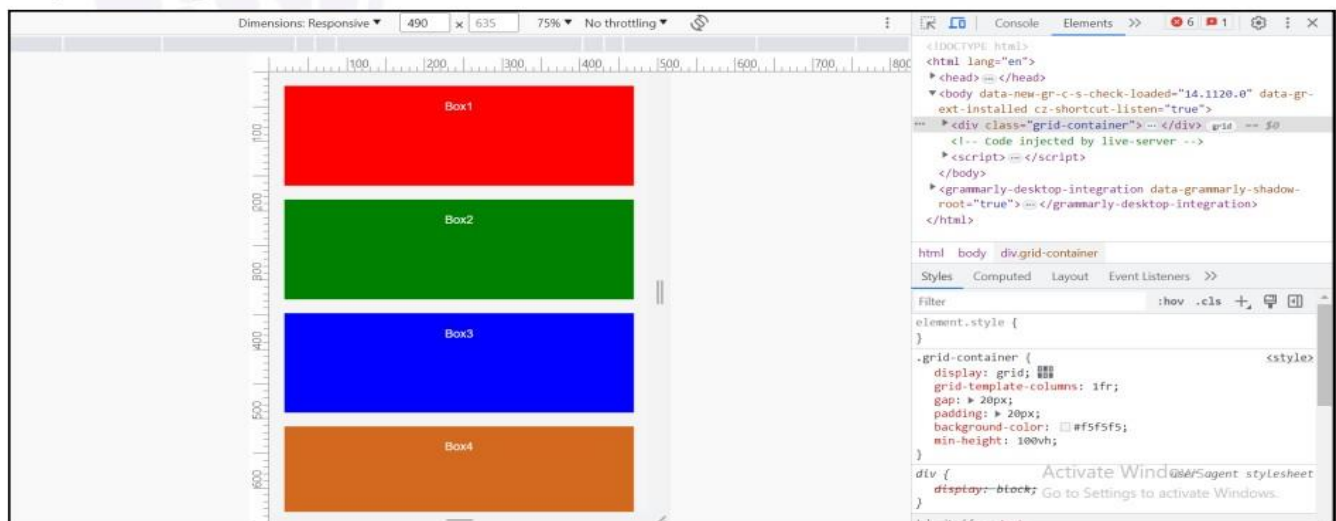Problem Statement:

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

Expected Outputs

Normal OutPut

Responsive OutPut

Solution:

Code(HTML)

```html
<!DOCTYPE html> <html

lang="en">

<head>

  <meta charset="UTF-
8">

  <meta
name="viewport"
content="width=devicew
idth, initial-scale=1.0">
```

```html
    <title>Media Queries</title>
    <link rel="stylesheet" href="media4.css">
</head>
<body>
    <div class="container">
    <div class="item item1">Box1</div>
    <div class="item item2">Box2</div>
    <div class="item item3">Box3</div>
    <div class="item item4">Box4</div>
    </div>
</body>
</html>
```

Code(CSS)

```css
*{  margin: 0;
padding: 0;   box-sizing: border-box;
}
.container{
```

```css
    /* height: 300px; */
/* width: 850px; */
margin: 0 auto;
padding: 10px;
border: 2px solid
black;    display: grid;
grid-templatecolumns:
1fr 1fr 1fr;    grid-
template-rows: auto
1fr;    gap: 10px;
}
.item{
  height: 100px;
  width: auto;    text-
align: center;    padding:
20px;
}
.item1{   background-
color: springgreen;
}
.item2{
backgroundcolor:li
me;
}
```

```css
.item3{    background-color: blue;
}

.item4{
backgroundcolor:yel
low;
}

@media(maxwidth:768p
x){    .container{    grid-
template-
columns: 1fr;
    grid-template-rows:
1fr 1fr 1fr 1fr;        row-
gap: 50px;
   }
}
```
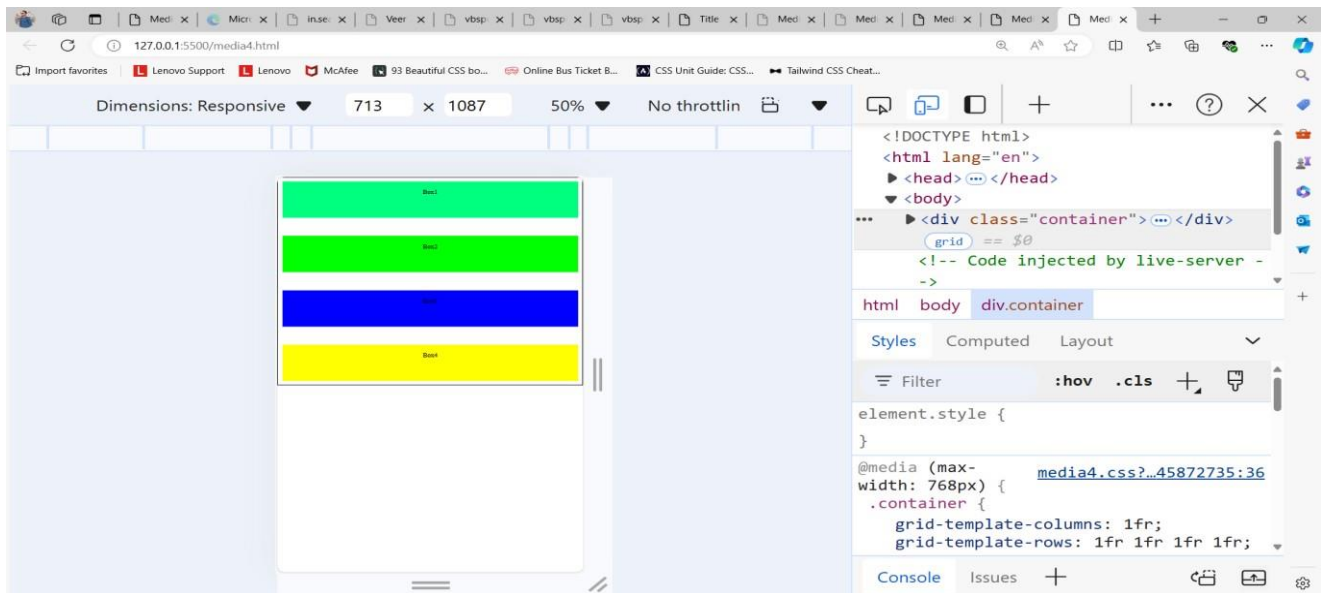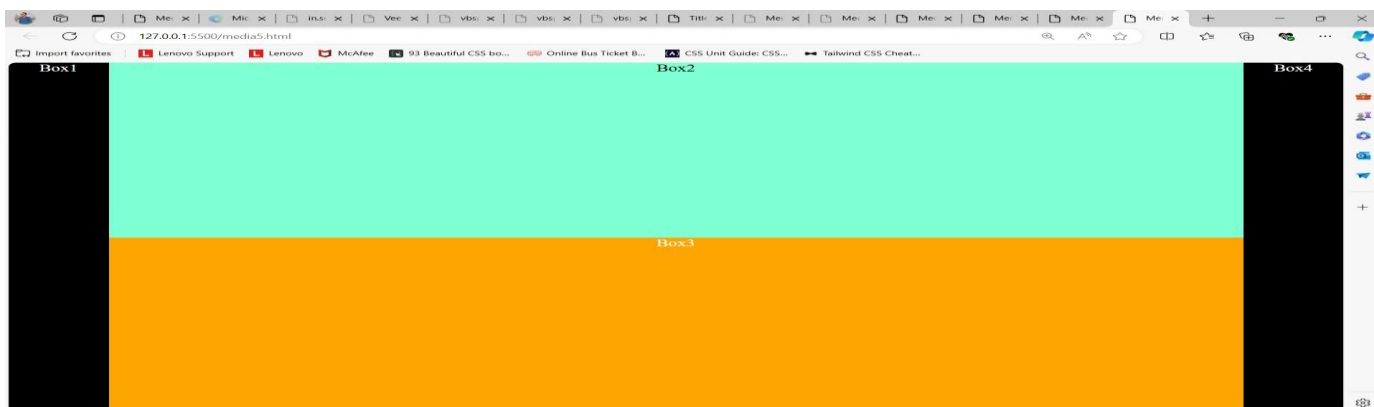
Output

Normal:
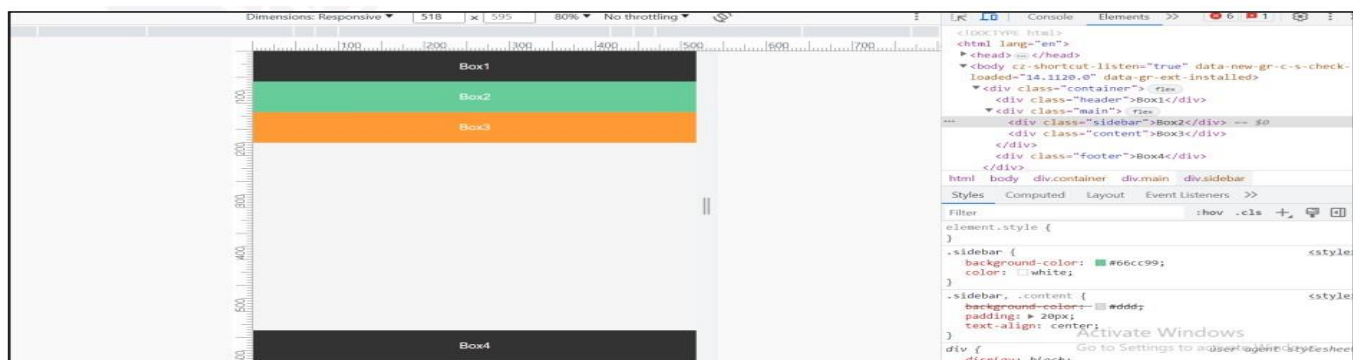

Responsive:

Task 5:

Problem Statement:

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

Expected Outputs

Normal OutPut

Responsive OutPut

Solution

Code(HTML)

```html
<!DOCTYPE html> <html
lang="en">
<head>
    <meta charset="UTF-
8">
    <meta name="viewport"
content="width=devicewid
th, initial-scale=1.0">
    <title>Media
Queries</title>
    <link rel="stylesheet"
href="media5.css">
</head>
<body>
    <div
class="container">
        <div class="item
item1">Box1</div>
    <div
class="middle_item">
        <div class="item
item2">Box2</div>
        <div class="item
item3">Box3</div>
    </div>
        <div class="item
item4">Box4</div>
```

```html
    </div>
</body>
</html>
```

```css
*{    margin: 0;
padding: 0;    box-sizing:
border-box;
}
.container{
display: flex;    text-
align: center;

}
.item1{    height: 100Vh;
width: 100px;
background-color: black;
color: white;    display:
flex;    justify-content:
center;
}
.middle_item>.item2{
background-color: lime;
height: 50vh;
```

```css
    width: 85vw;
}
.item3{    height: 50vh;
width: 85vw;    background-
color:tomato;    color:
white;
}
.item4{    height: 100Vh;
width: 100px;
background-color: black;
color: white;    justify-
content: right;
}
@media(max-width:766px){
    .container{        display:
flex;        flex-direction:
column;        justify-
content: end;
    }
    .item1{
width: 100vw;
height: 200px;    }
```

```css
.middle_item>.item2,.item3{
width: 100vw;      height:
200px;
    }
    .item4{      width:
100vw;      height: 200px;
justify-content: center;
margin-top: 250px;
    }
```
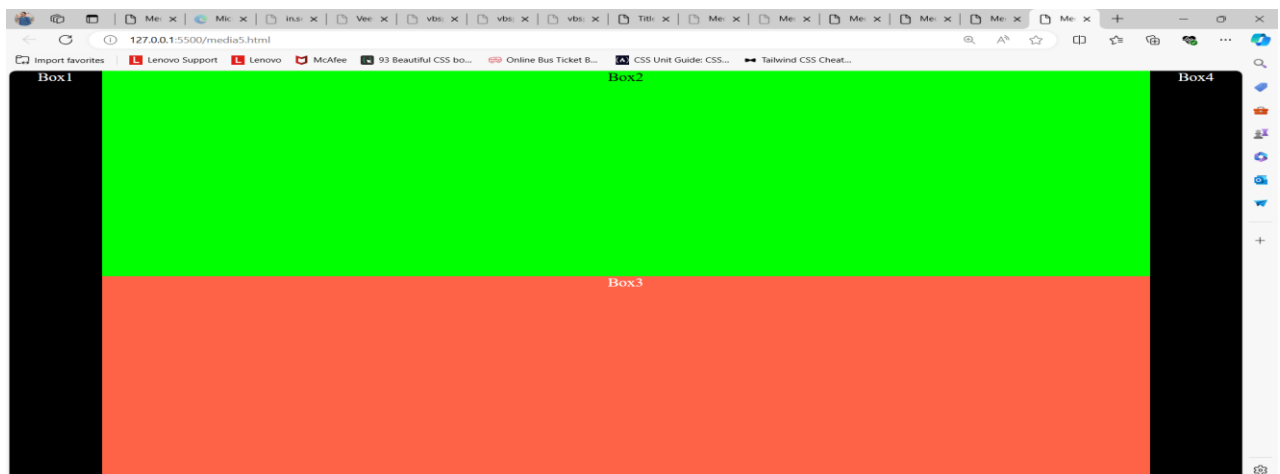
OutPut

Normal OutPut:

Responsive OutPut: