

Chapter 5 Practice Set by Munawar

Questions

1. Create a responsive header using relative lengths.

Solution

```
<!DOCTYPE html>
<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> Chapter 5 practice set</title>
  <link rel="preconnect" href="https://fonts.gstatic.com">
  <link
href="https://fonts.googleapis.com/css2?family=Baloo+Bhai+2&display=swap"
rel="stylesheet">
  <style>
    * {
      margin: 0;
      padding: 0;
    }
    li{
      display:inline;
      padding:10px 10px;

    }
    header{
      background-color:black;
      color:white;
      padding:10px 10px
    }

  </style>
</head>

<body>
<header>
  <nav>
```

```

        <ul>
            <li>Home</li>
            <li>About</li>
            <li>Contact us</li>
        </ul>
    </nav>
</header>
</body>

</html>

```

2. Create a sticky navigation bar using position property.

Solution

```

<!DOCTYPE html>
<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> Chapter 5 practice set</title>
    <link rel="preconnect" href="https://fonts.gstatic.com">
    <link
href="https://fonts.googleapis.com/css2?family=Baloo+Bhai+2&display=swap"
rel="stylesheet">
    <style>
        * {
            margin: 0;
            padding: 0;
        }
        li{
            display:inline;
            padding:10px 10px;

        }
        header{
            background-color:black;
            color:white;
            padding:10px 10px;
            position:sticky;
            top:0;
        }
        .container{

```

```

        min-height:433px;
        background-color:aqua;
    }

</style>
</head>

<body>
<header>
    <nav>
        <ul>
            <li>Home</li>
            <li>About</li>
            <li>Contact us</li>
        </ul>
    </nav>
</header>
<div class="container">

</div>
<div class="container">

</div>
</body>

</html>

```

3. Demonstrate the use of list-style property using a ul as example.

Solution

```

<!DOCTYPE html>
<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> Chapter 5 practice set</title>
    <link rel="preconnect" href="https://fonts.gstatic.com">
    <link
href="https://fonts.googleapis.com/css2?family=Baloo+Bhai+2&display=swap"
rel="stylesheet">
    <style>
        * {

```

```
        margin: 0;
        padding: 0;
    }
    li{
        display:inline;
        padding:10px 10px;

    }
    ul li a{
        list-style:none;
    }
    header{
        background-color:black;
        color:white;
        padding:10px 10px;
        position:sticky;
        top:0;
    }
    .container{
        min-height:433px;
        background-color:aqua;
    }

</style>
</head>

<body>
<header>
    <nav>
        <ul>
            <li><a>Home</a></li>
            <li><a>About</a></li>
            <li><a>Contact us</a></li>
        </ul>
    </nav>
</header>
<div class="container">

</div>
<div class="container">

</div>
</body>
```

```
</html>
```

4. Demonstrate the use of z-index using an example.

Solution

```
<!DOCTYPE html>
<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> Chapter 5 practice set</title>
  <link rel="preconnect" href="https://fonts.gstatic.com">
  <link
href="https://fonts.googleapis.com/css2?family=Baloo+Bhai+2&display=swap"
rel="stylesheet">
  <style>
    * {
      margin: 0;
      padding: 0;
    }
    li{
      display:inline;
      padding:10px 10px;

    }
    ul li a{
      list-style:none;
    }
    header{
      background-color:black;
      color:white;
      padding:10px 10px;
      position:sticky;
      top:0;
    }
    .container{
      min-height:433px;
      background-color:aqua;
      position:relative;
      z-index:3;
    }
  </style>
</head>

<body>
  <div class="container">
    <div class="header">
      <h1>Chapter 5</h1>
      <h2>Practice set</h2>
      <div class="list">
        <ul>
          <li>1. Write a program to find the sum of all numbers from 1 to 100 using a for loop.</li>
          <li>2. Write a program to find the sum of all even numbers from 1 to 100 using a for loop.</li>
          <li>3. Write a program to find the sum of all odd numbers from 1 to 100 using a for loop.</li>
          <li>4. Write a program to find the sum of all prime numbers from 1 to 100 using a for loop.</li>
          <li>5. Write a program to find the sum of all Fibonacci numbers from 1 to 100 using a for loop.</li>
          <li>6. Write a program to find the sum of all Armstrong numbers from 1 to 100 using a for loop.</li>
          <li>7. Write a program to find the sum of all perfect numbers from 1 to 100 using a for loop.</li>
          <li>8. Write a program to find the sum of all Mersenne numbers from 1 to 100 using a for loop.</li>
          <li>9. Write a program to find the sum of all Mersenne primes from 1 to 100 using a for loop.</li>
          <li>10. Write a program to find the sum of all Mersenne primes from 1 to 100 using a for loop.</li>
        </ul>
      </div>
    </div>
  </div>
</body>
</html>
```

```

        .container2{
            min-height:433px;
            background-color:aqua;
        }

    </style>
</head>

<body>
<header>
    <nav>
        <ul>
            <li><a>Home</a></li>
            <li><a>About</a></li>
            <li><a>Contact us</a></li>
        </ul>
    </nav>
</header>
<div class="container">
    These are more units for describing size either other than "px".
    These are rem .em vw, vh, percentages etc.
    What wrong with pixels?
    Pixels (px) are relative to the viewing device. For a device with size 1920X1080,
    1px is 1 unit out of 1080/1920.
    Relative lengths
    These units are relative to the other length property. Following are some of the
    most commonly used relative's lengths.
    1. em ----- > Unit relative to the parent font size.
        Em means "my parent element" font size.
    2. rem ----- > Unit relatives to the root font size (<html> tag)
    3. vw ----- > Unit relatives to 1% viewport width.
    4. vh ----- > unit relative to 1% viewport height.
    5. % ----- > unit relative to the parent element.
    Min/max-height/width property
    CSS has a min-height, max-height, and min-width and max-width property.
    If the content is smaller than the minimum height, minimum height will be
    applied.
    Similar is the case with other related properties.
    The position property
    Used to manipulate the location of an element following are the possible values.

</div>
<div class="container2">

```

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

Thank You