Jurusan Teknologi Informasi Politeknik Negeri Malang

Jobsheet-3: HTML dan CSS

Mata Kuliah Desain dan Pemrograman Web

Pengampu: Tim Ajar Desain dan Pemrograman Web

Agustus 2020

Ketentuan;

Simpanlah file lembar jawaban ini dengan format; **Kelas_Nama Lengkap**

Contoh; **TI 2A_Elok Nur Hamdana**

Upload tugas jobsheet ini dengan batas maksimum sesuai jadwal perkuliahan masing masing kelas

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Nama	:	AL AZHAR RIZQI RIFA'I FIRDAUS
Nim	:	2241720263
Kelas	:	TI 2I

Tulislah Jawaban Pada Kolom Yang tersedia di bawah ini;

LEMBAR JAWABAN JOBSHEET-2

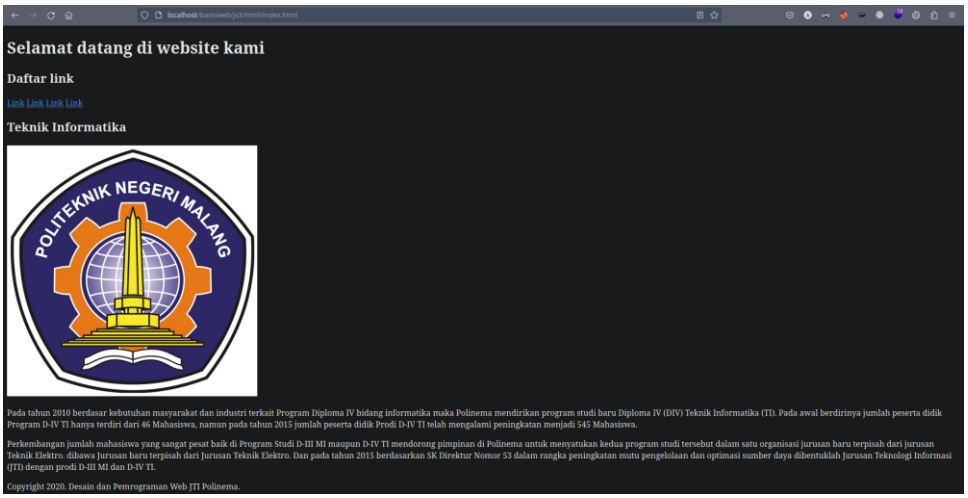
Soal No	Jawaban
1	Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>CSS Layouting</title>
</head>
<body>
    <h1>Selamat datang di website kami</h1>

    <h2>Daftar link</h2>
    <a href="#">Link</a>
    <a href="#">Link</a>
    <a href="#">Link</a>
    <a href="#">Link</a>

    <h2>Teknik Informatika</h2>
    <img src="../img/Logo-Polinema-Politeknik-Negeri-Malang-PNG.png.webp" alt="" height="500px" width="500px">
    <p>Pada tahun 2010 berdasar kebutuhan masyarakat dan industri terkait Program Diploma IV bidang informatika maka Polinema mendirikan progr
    <p>Perkembangan jumlah mahasiswa yang sangat pesat baik di Program Studi D-III MI maupun D-IV TI mendorong pimpinan di Polinema untuk meny
    <p class="copyright">Copyright 2020. Desain dan Pemrograman Web JTI Polinema.</p>
</body>
</html>
```

index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>CSS Layouting</title>
</head>
<body>
    <div class="header">
        <h1>Selamat datang di website kami</h1>
    </div>

    <div class="navigasi">
        <h2>Daftar link</h2>
        <a href="#">Link</a>
        <a href="#">Link</a>
        <a href="#">Link</a>
        <a href="#">Link</a>
    </div>

    <div class="main">
        <h2>Teknik Informatika</h2>
        <img src="../img/Logo-Polinema-Politeknik-Negeri-Malang-PNG.png.webp" alt="" height="500px" width="500px">
        <p>Pada tahun 2010 berdasar kebutuhan masyarakat dan industri terkait Program Diploma IV bidang informatika maka Polinema mendirikan p
        <p>Perkembangan jumlah mahasiswa yang sangat pesat baik di Program Studi D-III MI maupun D-IV TI mendorong pimpinan di Polinema untuk
    </div>

    <div class="copyright">
        <p>Copyright 2020. Desain dan Pemrograman Web JTI Polinema.</p>
    </div>
</body>
</html>
```

Result:



From the result, there is nothing different between both the first code and the second. But from code, there are differences between both at structure. The difference is there are several div that contains name class based on content. The benefits of using div that contains class is we can categorize content of our webpage so that it looks neater. Also, with class we can separate styling code that located at body tag html, by putting our styling code in css code or style tag at head tag.

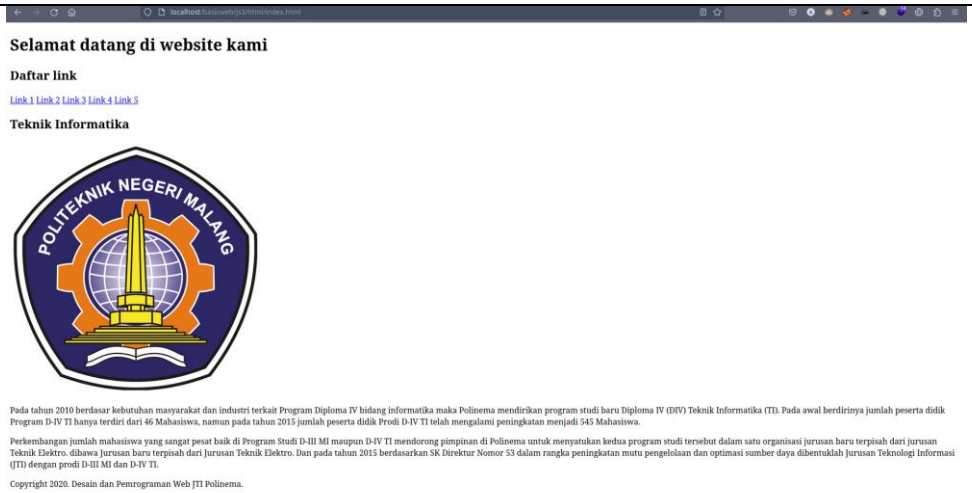
2	Code: Result: **We add several styles to navigasi and main class. Navigasi class contains pink background color and width, height, display. Then the main class has lightgreen background color.**
3	Code:

```
14      <div class="navigasi">
15          <h2>Daftar link</h2>
16          <a href="#">Link 1</a>
17          <a href="#">Link 2</a>
18          <a href="#">Link 3</a>
19          <a href="#">Link 4</a>
20          <a href="#">Link 5</a>
21      </div>
```

index.html | cssLayouting.css

```
css > cssLayouting.css
1   /* .navigasi {
2       background-color: pink;
3       width: 200px;
4       height: 200px;
5       display: inline-block;
6   }
7
8   .main {
9       background-color: lightgreen;
10  } */
```

Result:

	 **After we delete our styles, the display goes back to before, and there are additional links 1 to 5.**
4	Code:

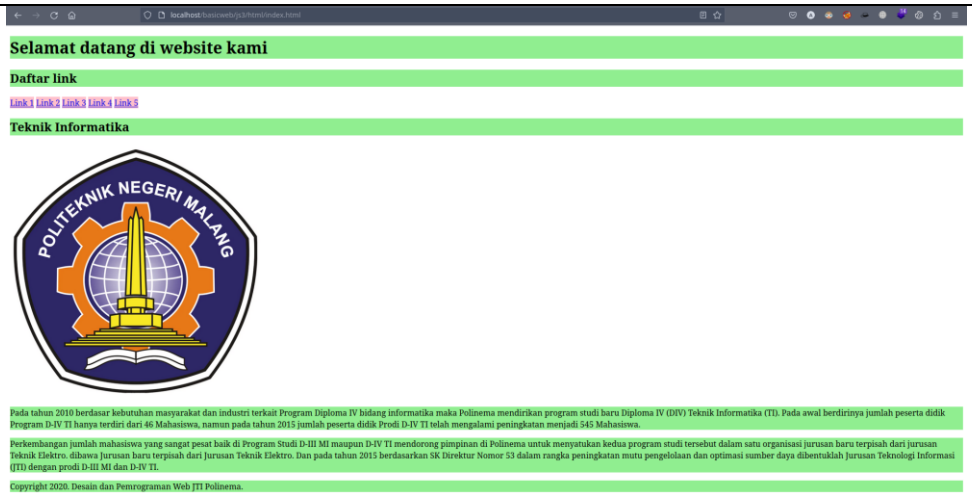
index.html | cssLayouting.css

css > cssLayouting.css > a

```
1   /* .navigasi {
2       background-color: pink;
3       width: 200px;
4       height: 200px;
5       display: inline-block;
6   }
7
8   .main {
9       background-color: lightgreen;
10  } */
11
12  a {
13      background-color: pink;
14      width: 200px;
15      height: 200px;
16      display: inline-block;
17  }
```

Result:

	That happens is we add style background color, width, height, display to <a> tag. That means all <a> tag will change the display based on the style.
5	Code: Result:



The result is all <h1>, <h2>, and <p> tag will be changed to light green color.

6 Code:

index.html | cssLayouting.css

css > cssLayouting.css > .main h2

```
1   a {
2       background-color: pink;
3   }
4
5   .main {
6       width: 600px;
7       background-color: lightgreen;
8   }
9
10  .main h2 {
11      background-color: pink;
12  }
13
```

Result:

<table>
<tr><td></td><td>

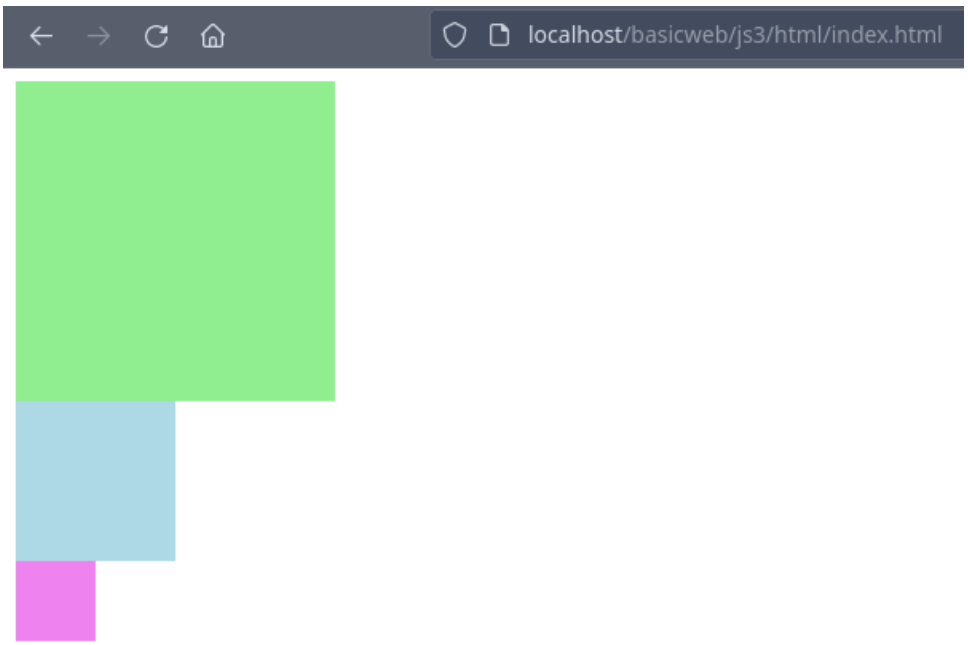
The result is in the main class there is style that contains width 600px, and background color is light green, but there is exception at <h2> tag in main class that is set to background color pink.
</td></tr>
<tr><td>7</td><td>Code:</td></tr>
</table>

index.html margin.css

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Margin Pratice</title>
    <link rel="stylesheet" href="../css/margin.css">
</head>
<body>
    <div class="satu"></div>
    <div class="dua"></div>
    <div class="tiga"></div>
</body>
</html>
```

index.html margin.css

```
.satu {
    width: 200px;
    height: 200px;
    background-color: lightgreen;
}

.dua {
    width: 100px;
    height: 100px;
    background-color: lightblue;
}

.tiga {
    width: 50px;
    height: 50px;
    background-color: violet;
}
```

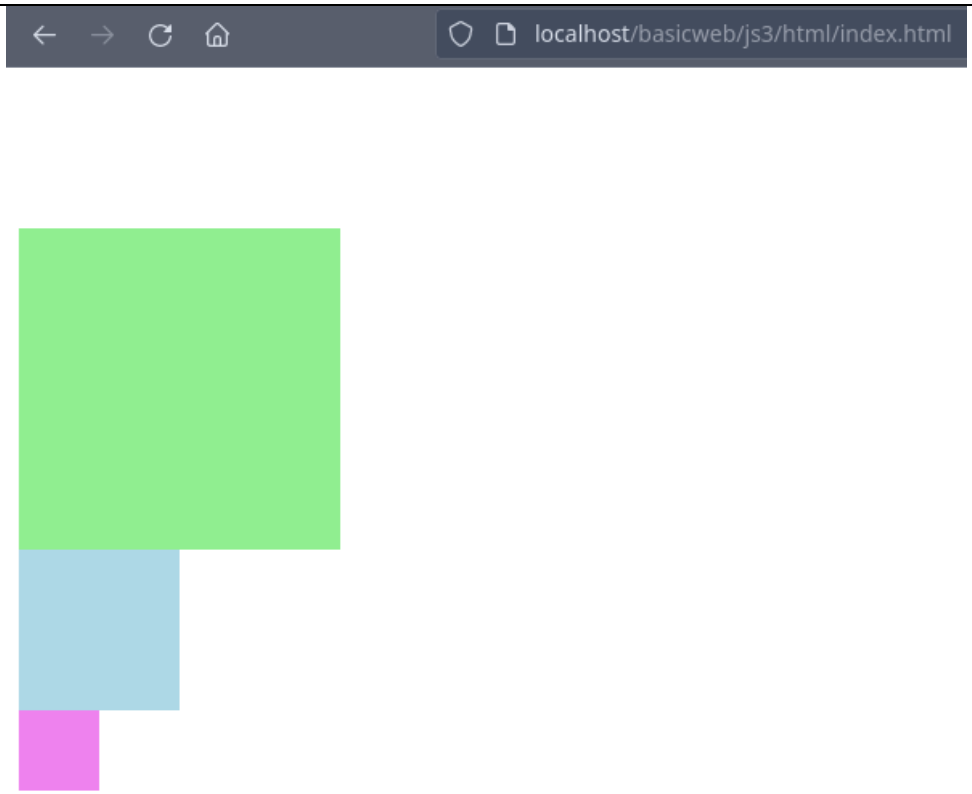
	Result:  **The result is there are 3 div that have different name class. Each class has width, height, and background color that is different.**
8	Code:

index.html margin.css ×

css > margin.css > .satu

```
1   .satu {
2       width: 200px;
3       height: 200px;
4       background-color: lightgreen;
5       margin-top: 100px;
6   }
7
8   .dua {
9       width: 100px;
10      height: 100px;
11      background-color: lightblue;
12  }
13
14  .tiga {
15      width: 50px;
16      height: 50px;
17      background-color: violet;
18  }
```

Result:

<table>
<tr><td></td><td> 

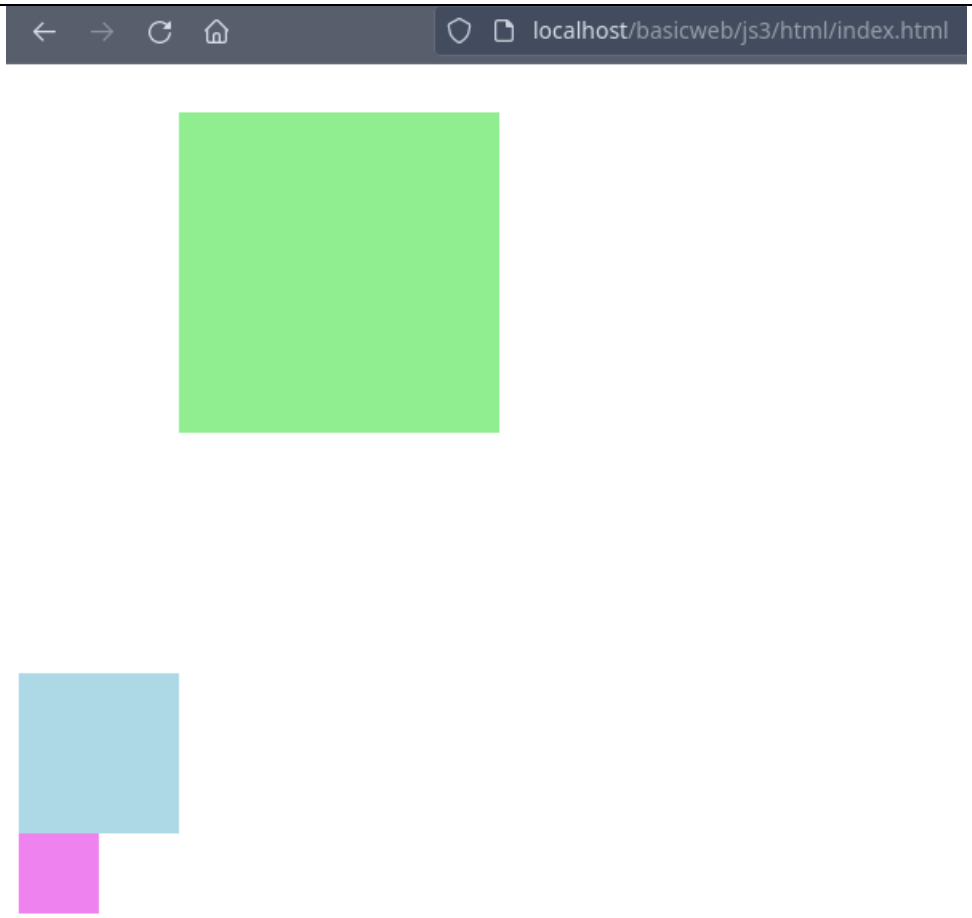
The result is there is distance at the top of div class satu. It happens because we add margin top at satu class.</td></tr>
<tr><td>9</td><td>Code:</td></tr>
</table>

index.html margin.css

css > margin.css > .satu

```css
.satu {
    width: 200px;
    height: 200px;
    background-color: lightgreen;
    margin-left: 100px;
    margin-top: 30px;
    margin-bottom: 150px;
    margin-right: 50px;
}

.dua {
    width: 100px;
    height: 100px;
    background-color: lightblue;
}

.tiga {
    width: 50px;
    height: 50px;
    background-color: violet;
}
```

Result:

<table>
<tr><td></td><td> 

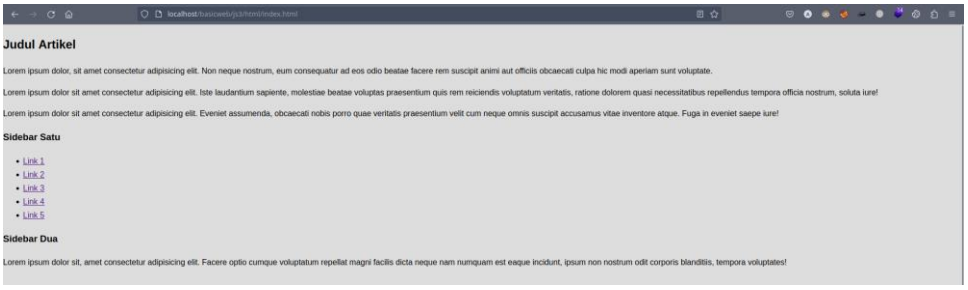
After we add margin top, left, bottom, and right at satu class, there is distance change based on their pixel.</td></tr>
<tr><td>10</td><td>Code:</td></tr>
</table>

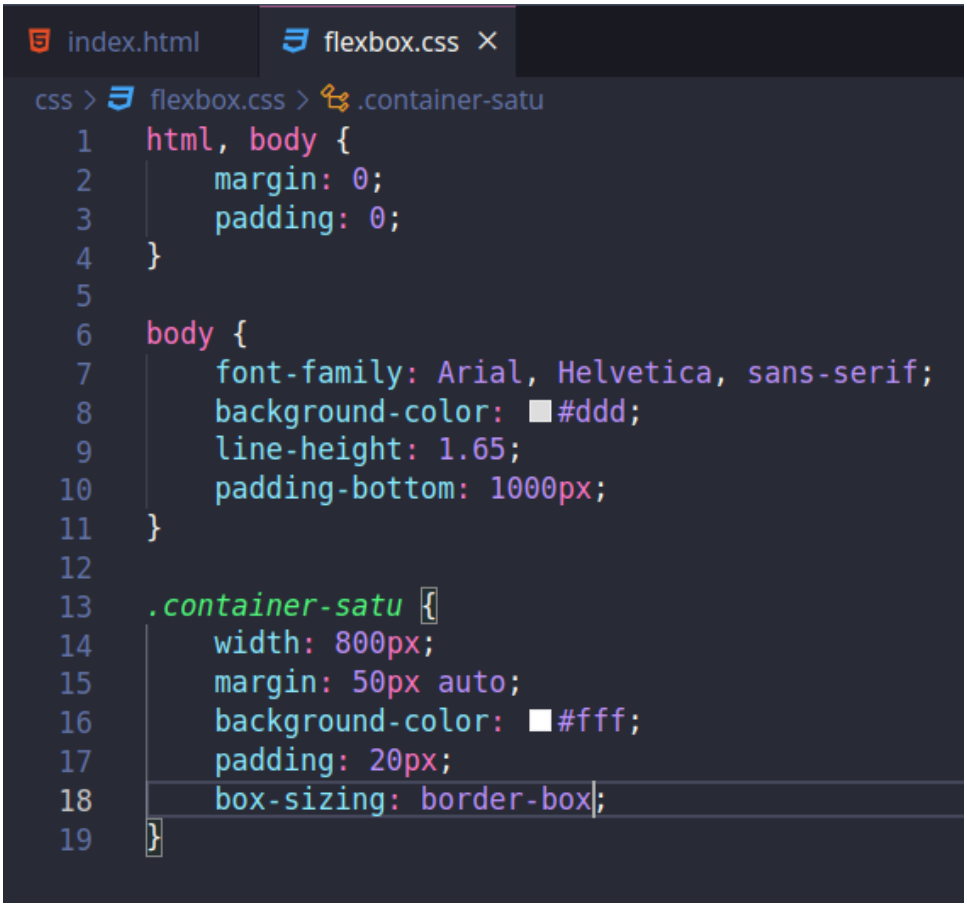
```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>FlexBox Pratice</title>
    <link rel="stylesheet" href="../css/flexbox.css">
</head>
<body>
    <!-- Pratice 1 column -->
    <div class="container-satu">
        <div class="kolom-utama">
            <h2>Judul Artikel</h2>
            <p>Lorem ipsum dolor, sit amet consectetur adipisicing elit. Non neque nostrum, eum consequatur ad eos odio beatae facere rem susc
            <p>Lorem ipsum dolor sit amet consectetur adipisicing elit. Iste laudantium sapiente, molestiae beatae voluptas praesentium quis
            <p>Lorem ipsum dolor sit amet consectetur adipisicing elit. Eveniet assumenda, obcaecati nobis porro quae veritatis praesentium v
        </div>
        <div class="sidebar-satu">
            <h3>Sidebar Satu</h3>
            <ul>
                <li><a href="">Link 1</a></li>
                <li><a href="">Link 2</a></li>
                <li><a href="">Link 3</a></li>
                <li><a href="">Link 4</a></li>
                <li><a href="">Link 5</a></li>
            </ul>
        </div>

        <div class="sidebar-dua">
            <h3>Sidebar Dua</h3>
            <p>Lorem ipsum dolor sit, amet consectetur adipisicing elit. Facere optio cumque voluptatum repellat magni facilis dicta neque na
        </div>

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

index.html flexbox.css

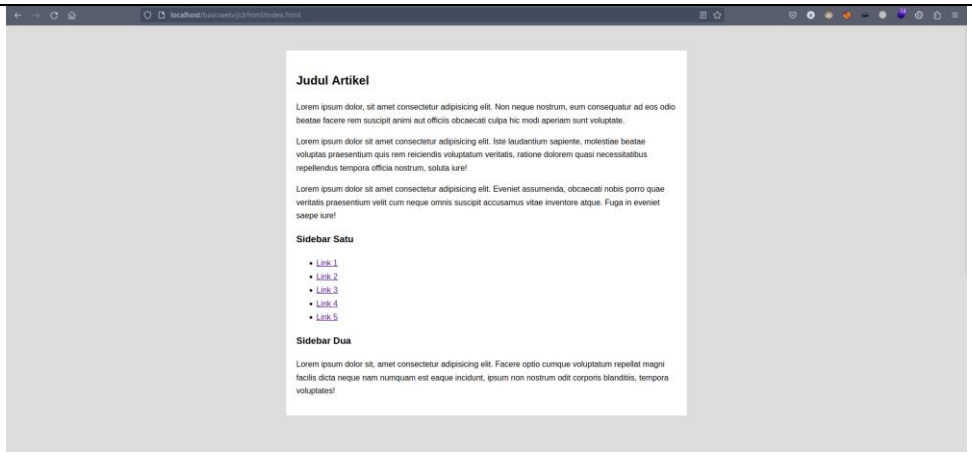
```css
html, body {
    margin: 0;
    padding: 0;
}

body {
    font-family: Arial, Helvetica, sans-serif;
    background-color: #ddd;
    line-height: 1.65;
    padding-bottom: 1000px;
}
```

Result:



	The result is there are several div that contains different content. At css, there are html, body tag that set margin and padding to 0. Then there are body tags that contain font family, background color, line-height, and padding bottom that we determined.
11	Code:  Result:

```
index.html    flexbox.css ×
css > flexbox.css > .container-satu
1   html, body {
2       margin: 0;
3       padding: 0;
4   }
5
6   body {
7       font-family: Arial, Helvetica, sans-serif;
8       background-color: #ddd;
9       line-height: 1.65;
10      padding-bottom: 1000px;
11  }
12
13  .container-satu {
14      width: 800px;
15      margin: 50px auto;
16      background-color: #fff;
17      padding: 20px;
18      box-sizing: border-box;
19  }
```



After we add several styles at container-satu class, there are changed from size, distance. Box-sizing in css is to control width and height to keep it proportional.

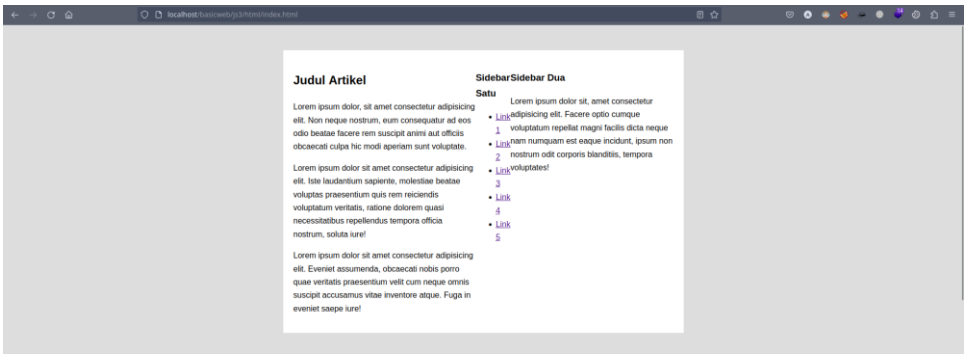
12	Code:

index.html | flexbox.css

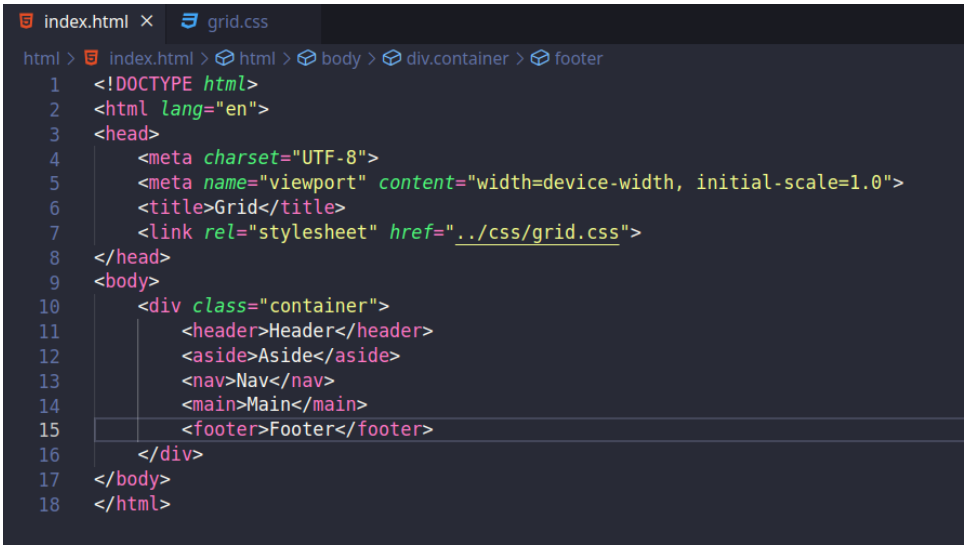
css > flexbox.css > .container-satu

```css
html, body {
    margin: 0;
    padding: 0;
}

body {
    font-family: Arial, Helvetica, sans-serif;
    background-color: #ddd;
    line-height: 1.65;
    padding-bottom: 1000px;
}

.container-satu {
    width: 800px;
    margin: 50px auto;
    background-color: #fff;
    padding: 20px;
    box-sizing: border-box;
    display: flex;
}
```

Result:



After we add display flex on container-satu class the result is every content inside container-satu, will be changed from several rows to only one row.

13	Code: 

```
index.html × grid.css
html > index.html > html > body > div.container > footer
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>Grid</title>
7      <link rel="stylesheet" href="../css/grid.css">
8  </head>
9  <body>
10     <div class="container">
11         <header>Header</header>
12         <aside>Aside</aside>
13         <nav>Nav</nav>
14         <main>Main</main>
15         <footer>Footer</footer>
16     </div>
17 </body>
18 </html>
```

index.html grid.css

css > grid.css > .container

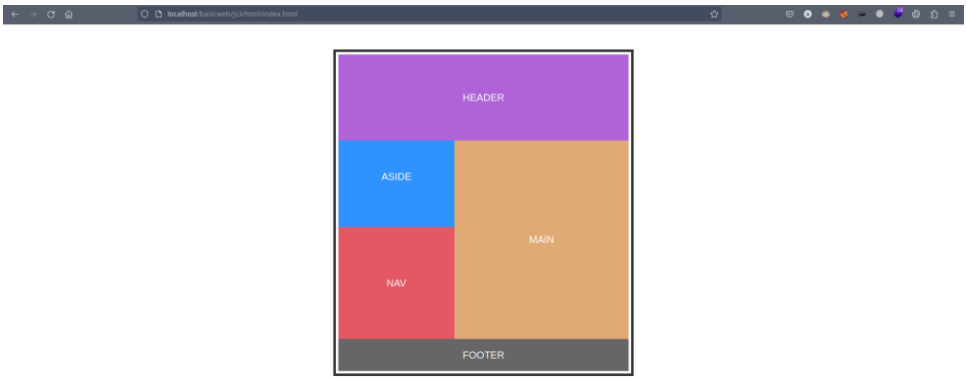
```css
body, html {
    margin: 0;
    padding: 0;
    font-size: 20px;
    font-family: arial;
    color: white;
    text-transform: uppercase;
    text-align: center;
}

.container {
    width: 600px;
    margin: 50px auto;
    border: 5px solid #333;
    box-sizing: border-box;
    padding: 5px;
    display: grid;
    grid-template-areas: "header header" "aside main" "nav main" "footer footer";
    grid-template-columns: 1fr 1.5fr;
    grid-template-rows: 1fr 1fr 1.3fr;
}

header {
    grid-area: header;
    background-color: #b063d8;
    display: flex;
    justify-content: center;
    align-items: center;
}

aside {
    grid-area: aside;
    background-color: #2f93ff;
    padding: 60px 0;
}

nav {
    grid-area: nav;
    background-color: #e45765;
    padding: 100px 0;
}
```

index.html grid.css

css > grid.css > .container

```
42
43  main {
44      grid-area: main;
45      background-color: #e0aa77;
46      box-sizing: border-box;
47      flex: 1.5;
48      display: flex;
49      justify-content: center;
50      align-items: center;
51  }
52
53  footer {
54      grid-area: footer;
55      background-color: #666;
56      padding: 20px 0;
57  }
```

Result:



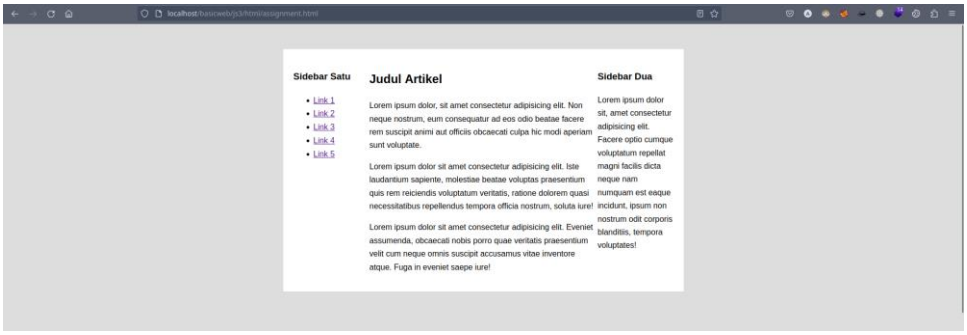
	The HTML structure includes a that contains a header, aside, nav, main, and footer. The CSS sets some global styles for the body and HTML, such as font size, family, color, and alignment. The .container div has a fixed width of 600px, centered on margins. It has a border, padding, and uses box-sizing: border-box property to include padding and border within the 600px width. CSS Grid is applied to the .container with specific grid areas defined for each of its child elements (header, aside, nav, main, footer). The grid-template-areas property defines the layout of the grid using grid areas. It specifies a 2x2 grid with areas for the header, aside, nav, main, and footer. The grid-template-columns property sets the column sizes. The first column takes up one fraction of the available space, and the second column takes up 1.5 fractions. The grid-template-rows property sets the row sizes, with the main area taking up 1.3 fractions of the available space. Each grid area (header, aside, nav, main, footer) is styled differently with background colors and padding. The header and main sections are centered both horizontally and vertically using display: flex, justify-content, and align-items.
1	**Assignment** Code:

assignment.html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Assignment</title>
    <link rel="stylesheet" href="../css/assignment.css">
</head>
<body>
    <div class="container">
        <div class="sidebar-satu">
            <h3>Sidebar Satu</h3>
            <ul>
                <li><a href="">Link 1</a></li>
                <li><a href="">Link 2</a></li>
                <li><a href="">Link 3</a></li>
                <li><a href="">Link 4</a></li>
                <li><a href="">Link 5</a></li>
            </ul>
        </div>
        <div class="main">
            <h2>Judul Artikel</h2>
            <p>Lorem ipsum dolor, sit amet consectetur adipisicing elit. Non neque nostrum, eum consequatur ad eos odio beatae facere rem susc
            <p>Lorem ipsum dolor sit amet consectetur adipisicing elit. Iste laudantium sapiente, molestiae beatae voluptas praesentium quis
            <p>Lorem ipsum dolor sit amet consectetur adipisicing elit. Eveniet assumenda, obcaecati nobis porro quae veritatis praesentium ve
        </div>
        <div class="sidebar-dua">
            <h3>Sidebar Dua</h3>
            <p>Lorem ipsum dolor sit, amet consectetur adipisicing elit. Facere optio cumque voluptatum repellat magni facilis dicta neque nam
        </div>
    </div>
</body>
</html>
```

assignment.css

```
html, body {
    margin: 0;
    padding: 0;
}

body {
    font-family: Arial, Helvetica, sans-serif;
    background-color: #ddd;
    line-height: 1.65;
    padding-bottom: 1000px;
}

.container {
    width: 800px;
    margin: 50px auto;
    background-color: #fff;
    padding: 20px;
    box-sizing: border-box;
    display: flex;
}

.sidebar-satu {
    width: 20%;
}

.main {
    width: 60%;
}

.sidebar-dua {
    width: 20%;
}
```

	Result: 
15	Code: Result:
16	Code: Result:
17	Code: Result:
18	Code: Result: