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Roll No --> 04

Assignment 4

13th August 2023

Module 2 : Front End Development

Submission Requirements: Please upload your codes in PDF File on Google Classroom in the relevant Assignment section.

Note: Plagiarism is a serious violation. Zero marks will be awarded in case plagiarism is found. You are required to perform the following tasks.

Part 1:

- Create a header that sticks to the top of the page even when scrolling.

Solution:

```
<!-- Task_1 -->
<header class="header">
  <li>Home</li>
  <li>About</li>
  <li>Services</li>
  <li>Contact Us</li>
</header>
```

```

6  /* Task_1 */
7  .header{
8      background-color: #rgb(78, 78, 78);
9      display: flex;
10     padding: 15px;
11     justify-content: space-evenly;
12     position: fixed;
13     width: 100%;
14 }
15
16 .header li{
17     list-style: none;
18     background-color: #rgb(185, 184, 184);
19     border-radius: 7px;
20     padding: 5px;
21 }
22
23 .header li:hover{
24     background-color: #rgb(134, 133, 133);
25     border-radius: 10px;
26     padding: 6px;
27 }
28

```

- Design a navigation menu with a fixed position on the left side of the viewport.

Solution:

```

19  <!-- Task_2 -->
20  <nav class="vertical">
21      <li>Home</li>
22      <li>About</li>
23      <li>Services</li>
24      <li>Contact Us</li>
25  </nav>
26
27

```

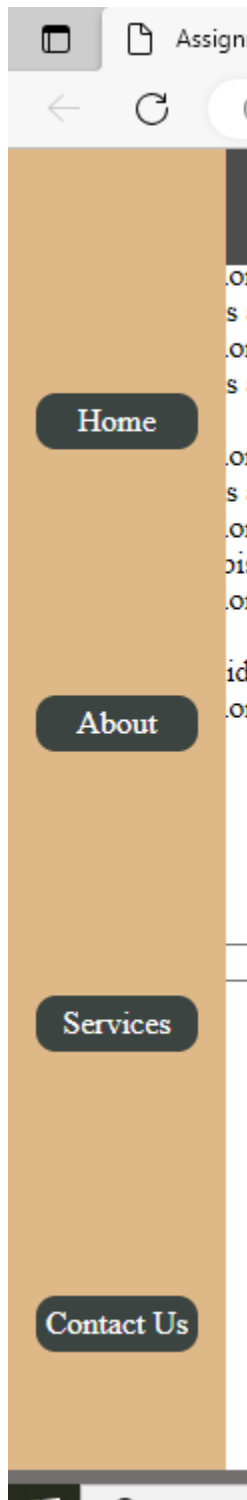
```

/* Task_2 */
.vertical{
    background-color: #burlywood;
    display: flex;
    flex-direction: column;
    display: inline-block;
    padding: 0 1% 100% 1%;
    position: fixed;
}

.vertical li{
    list-style: none;
    margin: 150% 0 0 0;
    padding: 5px;
    background-color: #rgb(59, 68, 65);
    border-radius: 10px;
    text-align: center;
    color: #white;
}

.vertical li:hover{
    background-color: #rgb(20, 167, 118);
    padding: 8px;
}

```



- Build a modal that appears in the center of the screen with a semi-transparent background overlay.

Solution:

- Implement a footer that sticks to the bottom of the page, regardless of content height.

Solution:

```
<!-- Task_4 -->
<div class="wrapper">
  <div class="content">

  </div>
</div>
<footer class="footer">
  &copy; Copyright Content
</footer>
```

```
/* Task_4 */
body {
  margin: 0;
  padding: 0;
  display: flex;
  flex-direction: column;
  min-height: 100vh; /* Set minimum height to 100% of the viewport height */
}

.wrapper {
  flex: 1; /* Allow the wrapper to take up remaining vertical space */
  display: flex;
  flex-direction: column;
}

.content {
  flex: 1; /* Allow the content to take up remaining vertical space in the wrapper */
  padding: 20px;
}

.footer {
  display: flex;
  justify-content: center;
  align-items: center;
  height: 30px; /* Set the desired height of the footer */
  background-color: #746f6f;
  text-align: center;
  position: fixed;
  margin-top: 47%;
  width: 100%;
}
```



- Create an overlapping card layout where cards stack on top of each other using different z-index values.

Solution:

```
<!-- Task_5 -->
<div class="main">
  Main
  <div class="one">
    Card-1
  </div>
  <div class="two">
    Card-2
  </div>
  <div class="three">
    Card-3
  </div>
</div>
```

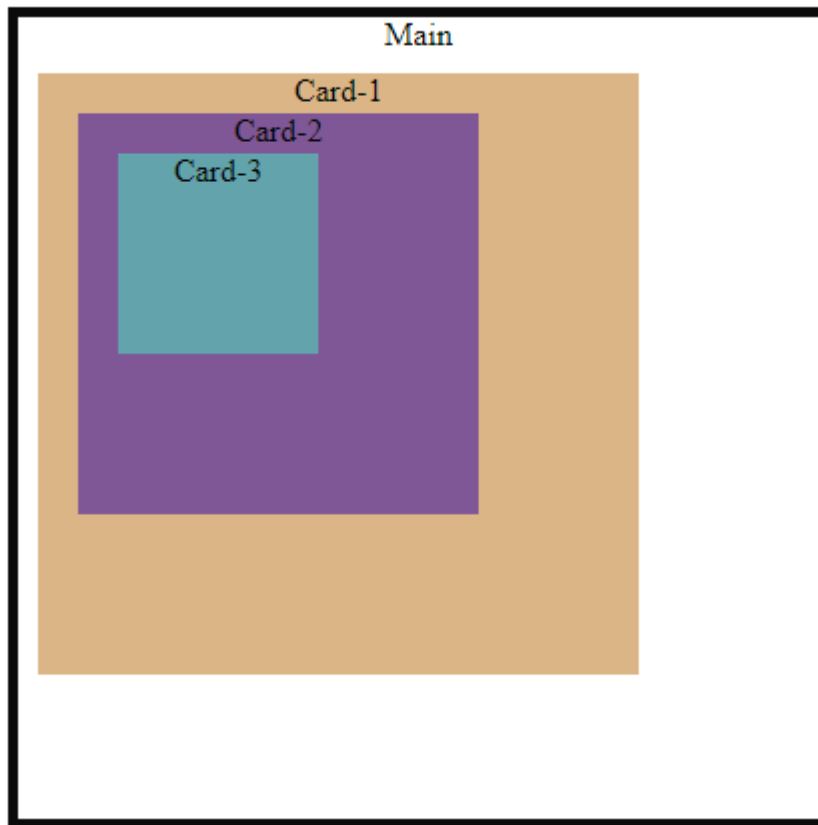
```
.main{
  display: block;
  border: 5px solid rgb(12, 11, 11);
  width: 400px;
  height: 400px;
  color: rgb(4, 8, 4);
  text-align: center;
}

.one{
  display: block;
  background-color: rgb(219, 181, 134);
  width: 300px;
  height: 300px;
  margin: 10px 0 0 10px;
  position: absolute;
  z-index: 1;
}
```

```
.two{
  display: block;
  background-color: rgb(127, 87, 151);
  width: 200px;
  height: 200px;
  margin: 30px 0 0 30px;
  position: absolute;
  z-index: 2;
}
```

```
.three{
  display: block;
  background-color: rgb(98, 163, 172);
  width: 100px;
  height: 100px;
  margin: 50px 0 0 50px;
}
```

```
position: absolute;  
z-index: 3;  
}
```



- Design a menu that appears above other content using a higher z-index value.

Solution:

- Create an element with 3 layered images and change their z dimension.

Solution:

- Style all the links within a specific div with a unique background color.

Solution:

```

<!-- Task_10 -->
<div class="direct">
  <p>Lorem ipsum dolor sit amet consectetur adipisicing elit. Laudantium voluptates voluptas, numquam doloribus
  exercitationem asperiores, quae culpa cum harum ipsa architecto ut ducimus magni magnam expedita maiores error nobis
  molestiae.</p>
  <div>Lorem ipsum dolor sit amet consectetur adipisicing elit. Omnis saepe ab ad, pariatur impedit consequuntur tempora
  fuga quisquam totam illo autem asperiores cumque sint animi repellat fugiat. Pariatur, eaque adipisci.</div>
  <section>

    <a href="http://edu.pk.com">Edu.com</a>
  <div>
    | Div Inside Section
  </div>
</section>
<div>Lorem ipsum dolor sit amet consectetur adipisicing elit. Quis doloremodi vitae esse molestias sint earum
inventore? Quam repellendus, sed iste tempora molestiae, ut animi, nesciunt provident rem velit veniam!</div>
</div>

```

```

/* Task_10 */
.direct > p{
  font-size: larger;
  color: rgb(209, 176, 66);
  text-decoration: line-through;
}

.direct > div{
  font-weight: 600;
  color: rgb(17, 146, 185);
}

.direct > section{
  text-decoration: line-through;
}

```

Checking in Div [Google](#)

[Link](#)

Lorem ipsum dolor sit amet consectetur adipisicing elit. Quos architecto necessitatibus, modi recusandae provident harum sapiente unde, consectetur quidem esse excepturi sequi ut repudiandae eligendi officius cumque molestias autem alias?

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- Select and style the first child element of a certain class differently from the rest.

Solution:

- Apply styles to elements that are direct descendants of a specific parent element.

Solution:

```

<!-- Task_10 -->
<div class="direct">
  <p>Lorem ipsum dolor sit amet consectetur adipisicing elit. Laudantium voluptates voluptas, numquam doloribus
  exercitationem asperiores, quae culpa cum harum ipsa architecto ut ducimus magni magnam expedita maiores error nobis
  molestiae.</p>
  <div>Lorem ipsum dolor sit amet consectetur adipisicing elit. Omnis saepe ab ad, pariatur impedit consequuntur tempora
  fuga quisquam totam illo autem asperiores cumque sint animi repellat fugiat. Pariatur, eaque adipisci.</div>
  <section>

    <a href="http://edu.pk.com">Edu.com</a>
  <div>
    | Div Inside Section
  </div>
</section>
<div>Lorem ipsum dolor sit amet consectetur adipisicing elit. Quis doloremque modi vitae esse molestias sint earum
inventore? Quam repellendus, sed iste tempora molestiae, ut animi, nesciunt provident rem velit veniam!</div>
</div>

```

```

/* Task_10 */
.direct > p{
  font-size: larger;
  color: #c0392b;
  text-decoration: line-through;
}

.direct > div{
  font-weight: 600;
  color: #2980b9;
}

.direct > section{
  text-decoration: line-through;
}

```

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[Edu.com](#)

Div Inside Section

Lorem ipsum dolor sit amet consectetur adipisicing elit. Quis doloremque modi vitae esse molestias sint earum inventore? Quam repellendus, sed iste tempora molestiae, ut animi, nesciunt provident rem velit veniam!

- Create a button that changes color when hovered over using a pseudo-class selector.

Solution:

```

<!-- Task_11 -->
<div>
  <form>
    | <button>Click Me</button>
  </form>
</div>

```



```
/* Task_11 */
div button:hover{
    background-color: #27d821;
    padding: 10px;
    border-radius: 10px;
}
```



- Style only the last item in a list differently using the last-child pseudo-class.

Solution:

```
<!-- Task_12 -->
<div class="last">
    <li>Sukkur</li>
    <li>Lahore</li>
    <li>Islamabad</li>
    <li>Karachi</li>
</div>
```

```
/* Task_12 */
.last li:last-child{
    background-color: rgb(19, 99, 131) ;
    font-size: x-large;
    text-decoration: underline;
    list-style: circle;
}
```

- Sukkur
- Lahore
- Islamabad
- Karachi

- Implement a form with input fields that change border color when they are focused.

Solution:

```

<!-- Task_13 -->
<form>
  <label for="name">Name: </label>
  <input type="text" name="name" id="name">

  <label for="age">Age: </label>
  <input type="number" name="age" id="age">

  <label for="mail">Email: </label>
  <input type="email" name="mail" id="mail">
</form>

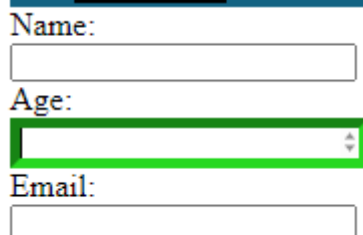
```

```

/* Task_13 */
label{
  display: block;
}

input:focus{
  border-color: #27d821;
  outline: none;
  border-width: 5px;
}

```



- Add custom icons before specific links in a navigation menu using pseudo-elements.

Solution:

- Create a quotation design where the opening and closing quotes are styled using pseudo-elements.

Solution:

- Design a callout box with a unique background color and pointer using pseudo-elements.

Solution:

- Design a responsive header using flexbox that aligns items horizontally and vertically.

Solution:

- Build a three-column layout where the middle column expands to fill remaining space using flexbox.

Solution:

- Create a flexible grid of cards that rearranges based on screen size using flexbox.

Solution:

- Implement a sidebar with a fixed width and a content area that adjusts using flexbox.

Solution:

Part 2:

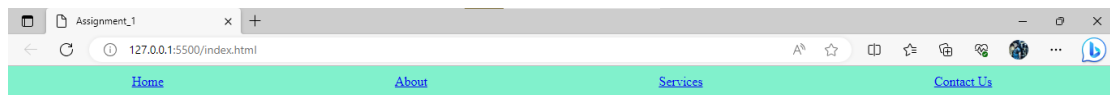
- Implement all properties for flex container (Mentioned in flex.css)

Solution:

```
<nav>
  <a href="#">Home</a>
  <a href="#">About</a>
  <a href="#">Services</a>
  <a href="#">Contact Us</a>
</nav>
```

(Common)

```
nav{
  display: flex;
  flex-direction: row;
  justify-content: space-around;
  background-color: #81f1cc;
  padding: 10px;
}
```



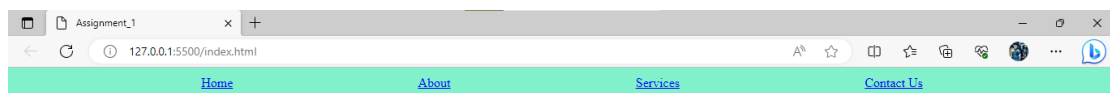
<----->

```
nav{
  display: flex;
  flex-direction: row;
  justify-content: space-between;
  background-color: #81f1cc;
  padding: 10px;
}
```



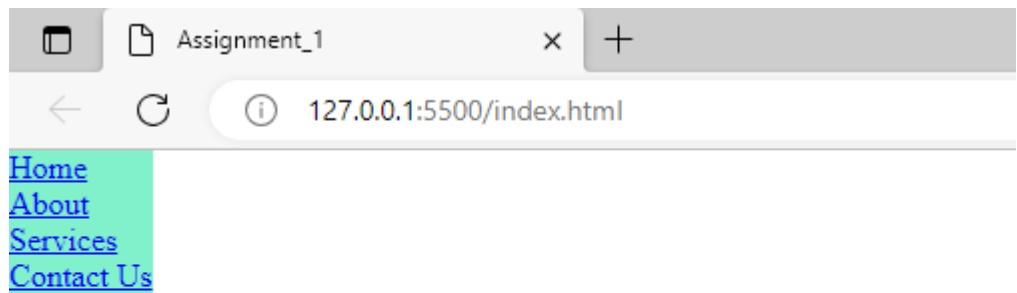
<----->

```
nav{
  display: flex;
  flex-direction: row;
  justify-content: space-evenly;
  background-color: #81f1cc;
  padding: 10px;
}
```



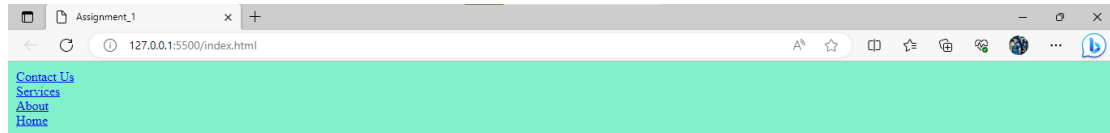
<----->

```
nav{
  display: flex;
  flex-direction: column;
  justify-content: space-evenly;
  background-color: #81f1cc;
  width: fit-content;
}
```



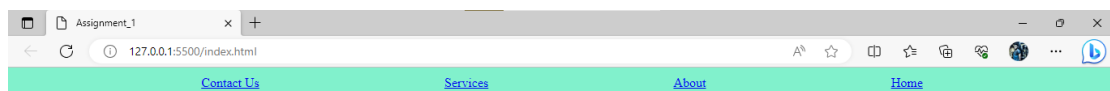
<----->

```
nav{
  display: flex;
  flex-direction: column-reverse;
  justify-content: space-evenly;
  background-color: #81f1cc;
  padding: 10px;
}
```



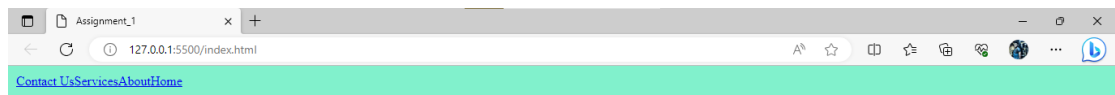
<----->

```
nav{
  display: flex;
  flex-direction: row-reverse;
  justify-content: space-evenly;
  background-color: #81f1cc;
  padding: 10px;
}
```



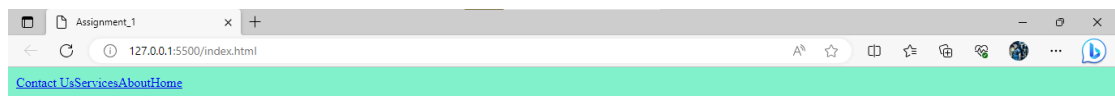
<----->

```
nav{
  display: flex;
  flex-direction: row-reverse;
  justify-content:left;
  background-color: #81f1cc;
  padding: 10px;
}
```



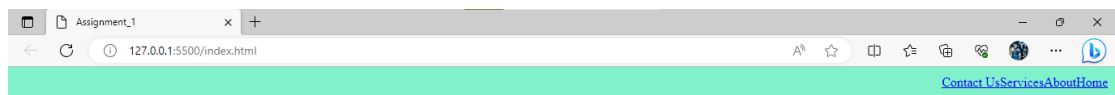
<----->

```
nav{
  display: flex;
  flex-direction: row-reverse;
  justify-content:left;
  background-color: #81f1cc;
  padding: 10px;
}
```



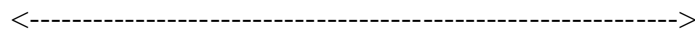
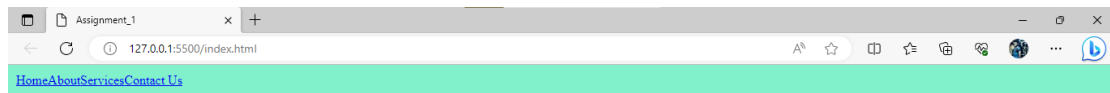
<----->

```
nav{
  display: flex;
  flex-direction: row-reverse;
  justify-content:flex-start;
  background-color: #81f1cc;
  padding: 10px;
}
```



<----->

```
nav{
  display: flex;
  flex-direction: row;
  justify-content: flex-start;
  background-color: #81f1cc;
  padding: 10px;
}
```



```
nav{
  display: flex;
  flex-direction: column-reverse;
  justify-content: flex-start;
  background-color: #81f1cc;
  padding: 10px;
}
```



