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Assignment 4
13ᵗʰ August 2023
<u>Module 2 : Front End Development</u>

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.

```html
<div>
    <h3>Create a header that sticks to the top of the page even when scrolling</h3>
    <header class="position">
        <div style="width: 25%;" class="inlineBlock">
            <img class="logo" src="logo.webp" alt="logo">
        </div>
        <div style="width: 55%; text-align: right;" class="inlineBlock">
            <nav>
                <ul>
                    <li>Home</li>
                    <li>About</li>
                    <li>Services</li>
                    <li>Contact Us</li>
                </ul>
            </nav>
        </div>
        <div style="width: 15%; text-align: right;" class="inlineBlock">
            <img class="user" src="user.png" alt="user">
        </div>
    </header>
</div>
```

```css
*{
    margin: 0;
    padding: 0;
}

.inlineBlock{
    display: inline-block;
    height: 80px;
}

div nav ul li{
    list-style: none;
    display: inline-block;
    font-size: 25px;
    color: rgb(0, 0, 150);
    padding: 20px;
    text-align: right;
}
```
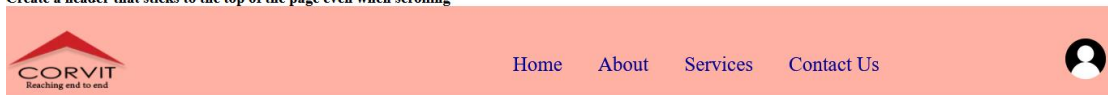
```css
.logo{
    width: 150px;
    height: auto;
    padding-top: 30px;

}
.user{
    width: 50px;
    height: auto;
    padding-top: 40px;
}


.position{
    position: fixed;
    width: 100%;
    background-color: ■rgb(255, 99, 71, 0.5);
}
```

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

CORVIT
Reaching end to end   Home   About   Services   Contact Us   👤

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

```html
<div>
    <h3>Design a navigation menu with a fixed position on the left side of the viewport</h3>
    <div style="position: fixed; top: 40px; bottom:80%; background-color: ■antiquewhite;">
        <nav>
            <ul>
                <li>Home</li>
                <li>About</li>
                <li>Services</li>
                <li>Contact Us</li>
            </ul>
        </nav>
    </div>
</div>
```

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

Home   About   Services   Contact Us

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

```
<div>
    <h3>Build a modal that appears in the center of the screen with a semi-transparent
    background overlay</h3>
    <div class="overlay">
        <div class="modal">
            <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit. Temporibus, quam.</p>
        </div>
    </div>
</div>
```

```
.overlay {
    position: fixed;
    top: 0;
    left: 0;
    width: 100%;
    height: 100%;
    background-color: rgba(82, 3, 73, 0.5);
    display: flex;
    justify-content: center;
    align-items: center;
}
```

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

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Temporibus, quam.

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

```html
<div>
    <h3>Implement a footer that sticks to the bottom of the page, regardless of content
    height</h3>
    <footer class="contact">
        <h2>Contact Us</h2>
        <p>Have a question or want to know more?</p>
        <div>
            <div class="icons">
                <i class="fas fa-phone-alt"></i>
                <i class="fas fa-envelope"></i>
                <i class="fab fa-facebook"></i>
                <i class="fab fa-twitter"></i>
                <i class="fab fa-instagram"></i>
            </div>
        </div>
        <p>&copy; 2023 Quixotic Quarters. All rights reserved.</p>
    </footer>
</div>
```

```css
.contact {
    background-color: ■rgb(139, 205, 92);
    color: ■#fff;
    padding: 40px 0;
    text-align: center;
    position: fixed;
    top: 70%;
    left: 0;
    width: 100%;

}
.icons {
    font-size: 24px;
    margin-top: 10px;
}
.icons i {
    margin: 0 10px;
    color: ■white;
    transition: color 0.3s;
}
```

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

Contact Us
Have a question or want to know more?
📞 ✉ ⊙ 🐦 ⊙
© 2023 Quixotic Quarters. All rights reserved.

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

```html
<div>
    <h3>Create an overlapping card layout where cards stack on top of each other using
    different z-index values</h3>
    <h1 style="position: absolute; left: 500px; color: ⬛brown; background-color: ⬛aqua;
    padding: 10px; z-index: -3;">
        Card 1</h1>
    <h1 style="position: absolute; left: 500px; color: ⬛aqua; background-color: ⬛brown;
    padding: 10px; z-index: 2;">
        Card 2</h1>
    <h1
        style="position: absolute; left: 500px; color: ⬛purple; background-color:
        ⬛palevioletred; padding: 10px; z-index: -1;">
        Card 3</h1>
    <h1
        style="position: absolute; left: 500px; color: ⬛palevioletred; background-color:
        ⬛purple; padding: 10px; z-index: 0;">
        Card 4</h1>
</div>
```

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

Card 2

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

```html
<div>
    <h3>Design a menu that appears above other content using a higher z-index value.
    </h3>
    <div class="content">
        <p>Lorem ipsum dolor sit amet consectetur adipisicing elit. Perspiciatis tenetur
        libero quasi voluptatibus accusantium quidem expedita! Est iure, magni odit
        voluptatum nemo maxime quos aut et cupiditate doloribus quidem neque tempore atque
        tempora inventore repudiandae vero.</p>
    </div>
    <div class="menu">
        <nav>
            <ul>
                <li>Home</li>
                <li>About</li>
                <li>Services</li>
                <li>Contact Us</li>
            </ul>
        </nav>
    </div>
</div>
```

```css
.content{
    position: absolute;
    background-color: ▢rgb(218, 165, 32, 0.5);
    color: ▢rgb(0, 0, 0, 0.5);
    z-index: -3;

}


.menu{
    position: absolute;
    background-color: ▢rgb(0, 0, 0, 0.5);
    z-index: -1;
    width: 100%;
    text-align: center;
    font-weight: bolder;
}
```

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

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

```html
<div>
    <h3>Create an element with 3 layered images and change their z dimension</h3>
    <div class="inlineBlock">
        <img style="z-index: 1; width: 400px; position: absolute;" src="img_3 (1).jpg"
        alt="">
        <img style="z-index: -2; width: 400px; position: absolute;" src="img_3 (2).jpg"
        alt="">
        <img style="z-index: 0; width: 400px; position: absolute;" src="img_3 (3).jpg"
        alt="">
    </div>
</div>
```

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

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

```
<div>
    <h3>Style all the links within a specific div with a unique background color</h3>
    <div>
        <a href="#">Home</a>
        <a href="#">About</a>
        <a href="#">Contact</a>
    </div>
</div>
```

```
div a {
    background-color: ◼blueviolet;
    display: block;
    color: ☐black;
    font-size: 20px;
    padding: 10px;
}
```

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

Home

About

Contact

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

```
<div>
    <h3>Select and style the first child element of a certain class differently from the
    rest</h3>
    <div>
        <h2>Lorem ipsum dolor sit, amet consectetur adipisicing elit. Ad rem minus
        perferendis quidem! Error libero necessitatibus placeat aliquam facere autem.</h3>
            <h2>Lorem ipsum dolor sit amet consectetur adipisicing elit. Nam in minima
            quibusdam voluptate tempore perferendis! Rerum quaerat quos necessitatibus,
            reprehenderit reiciendis alias, unde corporis dolorum incidunt, molestias quod
            inventore sint.</h3>
    </div>
</div>
```

```
div h2:first-child{
    background-color: ◼rgb(195, 117, 89);
    color: ☐rgb(66, 11, 93);
    border-radius: 10px;
    border-color: ☐black;
    border-style: solid;
    padding: 10px;
}
```

Lorem ipsum dolor sit, amet consectetur adipisicing elit. Ad rem minus perferendis quidem! Error libero necessitatibus placeat aliquam facere autem.

Lorem ipsum dolor sit amet consectetur adipisicing elit. Nam in minima quibusdam voluptate tempore perferendis! Rerum quaerat quos necessitatibus, reprehenderit reiciendis alias, unde corporis dolorum incidunt, molestias quod inventore sint.

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

```
<h3>Apply styles to elements that are direct descendants of a specific parent element</h3>
<div>
    <h2>Lorem ipsum dolor sit, amet consectetur adipisicing elit. Ad rem minus perferendis quidem! Error libero necessitatibus placeat aliquam facere autem.</h2>
    <h2>Lorem ipsum dolor sit amet consectetur adipisicing elit. Nam in minima quibusdam voluptate tempore perferendis! Rerum quaerat quos necessitatibus, reprehenderit reiciendis alias, unde corporis dolorum incidunt, molestias quod inventore sint.</h2>
</div>
<h2>not a direct descendant of this div</h2>
```

```
div > h2{
    background-color: rgb(195, 117, 89);
    color: rgb(66, 11, 93);
    border-radius: 10px;
    border-color: black;
    border-style: solid;
    padding: 10px;
}
```

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

Lorem ipsum dolor sit, amet consectetur adipisicing elit. Ad rem minus perferendis quidem! Error libero necessitatibus placeat aliquam facere autem.

Lorem ipsum dolor sit amet consectetur adipisicing elit. Nam in minima quibusdam voluptate tempore perferendis! Rerum quaerat quos necessitatibus, reprehenderit reiciendis alias, unde corporis dolorum incidunt, molestias quod inventore sint.

not a direct descendant of this div

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

```
<div>
    <h3>Create a button that changes color when hovered over using a pseudo-class selector</h3>
    <div>
        <button>Hover me!</button>
    </div>
</div>
```

```css
button{
    width: 200px;
    height: 50px;
    font-weight: bold;
}


button:hover{
    background-color: ■brown;
}
```

Create a button that changes color when hovered over using a pseudo-class selector
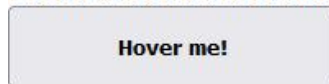
> Hover me!

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

> Hover me!

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

```html
<div>
    <h3>Style only the last item in a list differently using the last-child pseudo-class</h3>
    <h3>Lorem ipsum dolor sit, amet consectetur adipisicing elit. Ad rem minus perferendis quidem! Error libero necessitatibus placeat aliquam facere autem.</h3>
    <h3>Lorem ipsum dolor sit amet consectetur adipisicing elit. Nam in minima quibusdam voluptate tempore perferendis! Rerum quaerat quos necessitatibus, reprehenderit reiciendis alias, unde corporis dolorum incidunt, molestias quod inventore sint.</h3>
</div>
```

```css
div h3:last-child{
    background-color: ■rgb(195, 117, 89);
    color: ■rgb(66, 11, 93);
    border-radius: 10px;
    border-color: □black;
    border-style: solid;
    padding: 10px;
}
```

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

```html
<div>
    <h3>Implement a form with input fields that change border color when they are focused</h3>
    <form method="get">
        <label for="name">Enter your name <input type="name" name="name" id="name"></label>
        <label style="display: block;" for="roll-no">Enter your roll-no. <input type="roll-no" name="roll-no" id="roll-no"></label>
    </form>
</div>
```

```css
form label{
    font-size: 30px;
}

label input{
    padding: 10px;
    border-color: brown;
    border-style: solid;
    border-width: 3px;
    transition: border-color 0.3s ease;
}

label input:focus{
    border-color: darkblue;
}
```

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

Enter your name

Enter your roll-no.

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

Enter your name [   ]

Enter your roll-no. [   ]

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

```html
<div>
    <h3>Add custom icons before specific links in a navigation menu using pseudo-elements</h3>
    <div class="icons">
        <a class="home" href="#">Home</a>
        <a class="about" href="#">About</a>
        <a class="service" href="#">Services</a>
    </div>
</div>
```

```css
.icons{
    padding: 30px;
    background-color: aquamarine;
    font-family: 'FontAwesome'
}

.home::before{
    content: '\f015';
    padding-left: 100px;
    padding-right: 5px;
}

.about::before{
    content: '\f129';
    padding-left: 100px;
    padding-right: 5px;
}

.service::before{
    content: '\f013';
    padding-left: 100px;
    padding-right: 5px;
}
```

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

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

```html
<div>
    <h3>Create a quotation design where the opening and closing quotes are styled using
    pseudo-elements</h3>
    <div>
        <p class="content">Lorem ipsum dolor sit, amet consectetur adipisicing elit. Magni
        quisquam quaerat tenetur eius earum expedita atque illum in sapiente sint
        doloremque debitis cum aut suscipit, nostrum saepe itaque blanditiis vitae optio
        libero reiciendis eos corrupti unde tempora. Provident adipisci dolorem cumque
        nesciunt veritatis, iusto magnam animi voluptas saepe eveniet accusamus</p>
    </div>
</div>
```

```css
.content{
    padding: 50px;
    background-color: ◼khaki;
    color: ◼chocolate;
    font-size: 20px;
    border: 3px solid ◼indianred;
    position: absolute;
}

.content::before{
    content: "\201C";
    position: absolute;
    top: 50px;
    left: 40px;
}

.content::after {
    content: "\201D";
    position: absolute;
}
```

"Lorem ipsum dolor sit, amet consectetur adipisicing elit. Magni quisquam quaerat tenetur eius earum expedita atque illum in sapiente sint doloremque debitis cum aut suscipit, nostrum saepe itaque blanditiis vitae optio libero reiciendis eos corrupti unde tempora. Provident adipisci dolorem cumque nesciunt veritatis, iusto magnam animi voluptas saepe eveniet accusamus"

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

```
<div>
    <h3>Design a callout box with a unique background color and pointer using
    pseudo-elements</h3>
    <div class="calloutBox">
        <p>Lorem ipsum dolor sit, amet consectetur adipisicing elit. Hic error harum enim
        expedita natus cum illum soluta pariatur animi mollitia</p>
    </div>
</div>
```

```
.calloutBox{
    background-color: rgb(217, 119, 74);
    color: midnightblue;
    padding: 20px;
    text-align: center;
    position: absolute;
    width: 500px;
    border: 3px solid crimson;
    margin-left: 100px;
}
.calloutBox::before {
    content: "";
    position: absolute;
    top: 20px;
    left: 30px;
    transform: translateX(-50%);
    border-width: 10px;
    border-style: solid;
    border-color:  transparent transparent transparent crimson;
}
```

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

▶ Lorem ipsum dolor sit, amet consectetur adipisicing elit. Hic error harum enim expedita natus cum illum soluta pariatur animi mollitia

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

```html
<div>
    <h3>Design a responsive header using flexbox that aligns items horizontally and
    vertically</h3>
    <div>
        <header class="flexBox">
            <nav>
                <ul>
                    <li>Home</li>
                    <li>About</li>
                    <li>Services</li>
                    <li>Contact Us</li>
                </ul>
            </nav>
        </header>
    </div>
</div>
```

```css
.flexBox{
    display: flex;
    background-color: ▪limegreen;
    color: ▪blueviolet;
    font-size: 30px;
}
```

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

Home   About   Services   Contact Us

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

```html
<div>
    <h3>Build a three-column layout where the middle column expands to fill remaining space
    using flexbox</h3>
    <div class="flexBox">
        <p class="column">Lorem ipsum dolor sit amet consectetur adipisicing elit. Eveniet
        illum at inventore minima, nostrum officia necessitatibus nesciunt incidunt unde.
        Eaque voluptas reprehenderit iure assumenda aspernatur quia repudiandae nisi ex
        distinctio!</p>
        <p class="column expand">Lorem ipsum dolor, sit amet consectetur adipisicing elit.
        Quis fugiat, odio iure error consequuntur amet unde labore dolores. Doloribus
        accusamus deleniti provident perferendis? Doloribus modi quam hic dolore fugiat
        vitae inventore temporibus voluptates ab qui dolor, sint eos voluptatum nemo
        magnam, eum itaque officiis maxime, aperiam non magni? Enim, explicabo.</p>
        <p class="column">Lorem ipsum dolor sit amet consectetur adipisicing elit.
        Reprehenderit nemo odit exercitationem illo voluptatum culpa tenetur ducimus
        consequuntur dolorem. Unde in ullam totam nisi dignissimos voluptatem assumenda
        quis est perferendis.</p>
    </div>
</div>
```

```css
.flexBox{
    display: flex;
}


.column {
    flex: 1;
    padding: 20px;
    border: 1px solid rgba(82, 3, 73, 0.5);
    text-align: center;
}


.expand {
    flex-grow: 2;
}
```

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

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- Create a flexible grid of cards that rearranges based on screen size using flexbox.
- Implement a sidebar with a fixed width and a content area that adjusts using flexbox.

Part 2:

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

<u>Flex-direction</u>

flex-direction: column;

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flex-direction: column-reverse;

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flex-direction: row;

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flex-direction: row-reverse;

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Flex-wrap

flex-wrap: nowrap;

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flex-wrap: wrap;

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flex-wrap: wrap-reverse;

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Justify-content

justify-content: baseline;

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