

1. Create a simple page with some div tags and show different ways to add CSS as well as what happens when you target the same elements with inline, internal, and external CSS. Also, utilize comments in the project where required.

Solution:- index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Document</title>
<style>
.Internal{ color: rgb(103, 103, 24);}
.Inline_Internal{color: rgb(116, 6, 116);}
#Inline_Internal_External{color: rgb(13, 13, 223);}
</style>
<link rel="stylesheet" href="/style.css">
</head>
<body>
<div style="color: yellowgreen;"> Inline </div><!-- Style has applied Inline -->
<div class="Internal">Internal</div> <!-- Style has been applied in Internal-->
<div class="External">External</div> <!-- Style has been applied from External-->
<div class="Inline_Internal" style="color: violet;"> Inline_Internal</div> <!-- Style applied from two way, inline and internal but Inline executed first-->
<div class="Internal_External" style="color: turquoise;">Internal_External</div><!-- Style applied from two way, Internal and External but Internal executed first-->
<div id="Inline_Internal_External" style="color: rgb(255, 7, 90);">Inline_Internal_External</div> <!-- Style applied from three ways but on Inline executed-->
<!-- Inline>Internal>External -->
</body>
</html>
```

Style.css

```
.External{color: wheat;}
.Inline_Internal{color: rgb(55, 119, 113);}
#Inline_Internal_External{color: rgb(152, 21, 21);}
```

Output

Inline
Internal
External
Inline__Internal
Internal__External
Inline__Internal__External

2. Build an HTML page with multiple paragraphs, each assigned a unique class name. Write CSS rules using class selectors to apply distinct styling to each paragraph. Follow the BEM naming convention and explain how you've named the classes.

Solution:-

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Document</title>
<style>
.Internal{ color: rgb(103, 103, 24);}
.Inline__Internal{color: rgb(116, 6, 116);}
#Inline__Internal__External{color: rgb(13, 13, 223);}
</style>
<link rel="stylesheet" href="/style.css">
</head>
<body>
<div class="Heading">
<h1 class="Main__heading">Lorem ipsum dolor sit.</h1>
<p class="Sub__heading">Lorem ipsum dolor sit amet consectetur.</p>
</div>
<div class="story">
<p class="Story__title">Lorem ipsum dolor sit amet consectetur adipisicing elit.</p>
<p class="Story__description">Lorem ipsum dolor, sit amet consectetur adipisicing elit. Officiis, eveniet. Natus, esse! Aliquid recusandae sunt alias, nam hic dolorem voluptates est placeat praesentium nobis perferendis error quia harum libero consequatur. Magnam repudiandae quasi nisi veritatis sed quae error consectetur corrupti.</p>
<p class="Story__conclusion">Lorem ipsum dolor sit amet, consectetur adipisicing elit. Voluptates quod ad quisquam delectus iste laudantium magni, ab ipsum explicabo quis, placeat aspernatur rem itaque nesciunt eos similique voluptas error impedit!</p>
</div>
</body>
</html>
```

Style

```
.Heading{background-color: bisque;}
.Main__heading{color: darkred;}
.Sub__heading{color: blue;}
.story{background-color: aqua;}
.Story__description{color: black;}
.Story__title{color: rgb(93, 106, 80);}
.Story__conclusion{color: darkblue;}
```

Output:

Lorem ipsum dolor sit.

Lorem ipsum dolor sit amet consectetur.

Lorem ipsum dolor sit amet consectetur adipisicing elit.

Lorem ipsum dolor, sit amet consectetur adipisicing elit. Officiis, eveniet. Natus, esse! Aliquid recusandae sunt alias, nam hic dolorem voluptates est placeat praesentium nobis perferendis error quia harum libero consequatur. Magnam repudiandae quasi nisi veritatis sed quae error consectetur corrupti.

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Voluptates quod ad quisquam delectus iste laudantium magni, ab ipsum explicabo quis, placeat aspernatur rem itaque nesciunt eos similique voluptas error impedit!

3. Develop an HTML form with various input elements. Use CSS to style the form, including setting background colors for input fields. Create a custom color palette for the form elements, and demonstrate how to apply opacity to one of the form sections.

Solution:

```
<form action="" method="post">
  <label for="Firstname">Firstname:</label>
  <input type="text" name="Firstname" class="Firstname" placeholder="firstname" id="Firstname">
  <br>
  <label for="lastname">lastname:</label>
  <input type="text" name="lastname" class="lastname" placeholder="lastname" id="lastname">
  <br>
  <label for="email">Email:</label>
  <input type="email" name="Email" class="Email" placeholder="type your email here" id="Email">
  <br>
  <label for="Username">Username:</label>
  <input type="text" placeholder="Username" id="Username" name="Username" class="Username" required min="3" max="20">
  <br>
  <label for="Password">password:</label>
  <input type="text" placeholder="*****" id="Password" name="Password" class="Password" min="3" max="20">
  <br>
  <label for="Confrim__Password">Confirmed password:</label>
  <input type="text" placeholder="*****" id="Confrim Password" name="Confrim Password" class="Confrim__Password" min="3"
  max="20">
  <br>
  <label for="age">Age:</label>
  <input type="number" placeholder="Age" id="Age" name="Age" class="Age" min="1" max="120">
  <br>
  <label for="">Gender:
  |
  | <input type="radio" value="Male" id="Male" name="Gender">
  | <label for="Male">Male</label>
  | <input type="radio" name="Gender" id="Female" value="Female">
  | <label for="Female">Female</label>
  | <input type="radio" name="Gender" id="other" value="Other">
  | <label for="Other">Other</label>
  </label>
  <br>

  <button>Register</button>
  <br>
</form>
```

Style:-

```
.Firstname{background-color: antiquewhite;}
.lastname{background-color: aqua;}
.Email{background-color: aquamarine;}
.Confirm__Password{background-color: bisque;}
.Age{background-color: blueviolet;}
.Username{ background-color: burlywood;}
.Password{background-color: deepskyblue;}
.Signup{background-color: maroon;}
```

Firstname:

lastname:

Email:

Username:

password:

Confirmed password:

Age:

Gender: ☐ Male ☐ Female ☐ Other

Outpur:-