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Department of Computer Science and Engineering  
Data Science

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Subject: WCN  
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Date Of Performance: 28-09-23  
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## ASSIGNMENT NO. 1

1. Write a code to create an HTML page which will divide a page in two horizontal fragments using frameset tag, each frame should have different background color and different heading.

### index.html:

```
<!DOCTYPE html>
<html>
  <frameset rows="50%, 50%" border="0">
    <frame src="left.html" frameborder="0" scrolling="auto">
    <frame src="right.html" frameborder="0" scrolling="auto">
  </frameset>
</html>
```

### Left.html:

```
<!DOCTYPE html>
<html>
  <head>
    <style>
      body {
        background-color: #ff9999; /* Red background color */
        margin: 0;
        padding: 20px;
```



```
}  
h1 {  
    color: white;  
}  
</style>  
</head>  
<body>  
    <h1>Left Frame Heading</h1>  
    <p>This is the left frame with a different background color.</p>  
</body>  
</html>
```

**Right.html:**

```
<!DOCTYPE html>  
<html>  
    <head>  
        <style>  
            body {  
                background-color: #99ccff; /* Blue background  
color */  
                margin: 0;  
                padding: 20px;  
            }  
            h1 {  
                color: white;  
            }  
        </style>  
    </head>  
    <body>  
        <h1>Right Frame Heading</h1>  
        <p>This is the right frame with another background color.</p>  
    </body> </html>
```



## OUTPUT:

### Left Frame Heading

This is the left frame with a different background color.

### Right Frame Heading

This is the right frame with another background color.



2. Create a XML page storing name, country, runs scored, balls faced for three batsmen. Represent same data as JSON object.

## XML

```
<cricketData>
```

```
<batsmen>
```

```
<batsman>
```

```
<name>Sachin Tendulkar</name>
```

```
<country>India</country>
```

```
<runsScored>18426</runsScored>
```

```
<ballsFaced>21367</ballsFaced>
```

```
<br></br>
```

```
</batsman>
```

```
<batsman>
```

```
<name>Ricky Ponting</name>
```

```
<country>Australia</country>
```

```
<runsScored>13704</runsScored>
```

```
<ballsFaced>17046</ballsFaced>
```

```
<br></br>
```

```
</batsman>
```

```
<batsman>
```



```
<name>Brian Lara</name>

<country>West Indies</country>

<runsScored>11953</runsScored>

<ballsFaced>14692</ballsFaced>

<br></br>

</batsman>

</batsmen>

</cricketData>
```

### Output:

```
Sachin Tendulkar India 18426 21367
Ricky Ponting Australia 13704 17046
Brian Lara West Indies 11953 14692
```

### JSON:

```
{
  "cricketData": {
    "batsmen": {
      "batsman": [
        {
          "name": "Sachin Tendulkar",
```



```
"country": "India",  
  
"runsScored": 18426,  
  
"ballsFaced": 21367  
  
},  
  
{  
  
  "name": "Ricky Ponting",  
  
  "country": "Australia",  
  
  "runsScored": 13704,  
  
  "ballsFaced": 17046  
  
},  
  
{  
  
  "name": "Brian Lara",  
  
  "country": "West Indies",  
  
  "runsScored": 11953,  
  
  "ballsFaced": 14692  
  
}  
  
]  
  
}  
  
}  
  
}
```



## OUTPUT:

```
▼ object {1}
  ▼ array {1}
    ▼ cricketData {1}
      ▼ batsmen {1}
        ▼ batsman [3]
          ▼ 0 {4}
            name : Sachin Tendulkar
            country : India
            runsScored : 18426
            ballsFaced : 21367
          ▼ 1 {4}
            name : Ricky Ponting
            country : Australia
            runsScored : 13704
            ballsFaced : 17046
          ▼ 2 {4}
            name : Brian Lara
            country : West Indies
            runsScored : 11953
            ballsFaced : 14692
```



3. Write an external stylesheet and link it with HTML code. The stylesheet should include the following:

- i. the web page will have the background image "img1.jpg".
- ii. The table headings will have red background color.
- iii. Background color of alternate paragraphs are different.
- iv. The hyperlinks on the web page will not have underline.

## Code:

### style.css:

```
/* Set background image */
body {
    background-image: url('shrey.jpg');
    background-size: cover;
    background-repeat: no-repeat;
}

/* Set red background for table headings */
table th {
    background-color: white;
    color: white; /* Add white text color for better visibility */
}

/* Set different background colors for alternate paragraphs */
p:nth-child(even) {
    background-color: lightgray;
}

p:nth-child(odd) {
    background-color: lightblue;
}

/* Remove underline from hyperlinks */
a {
```





text-decoration: none;}

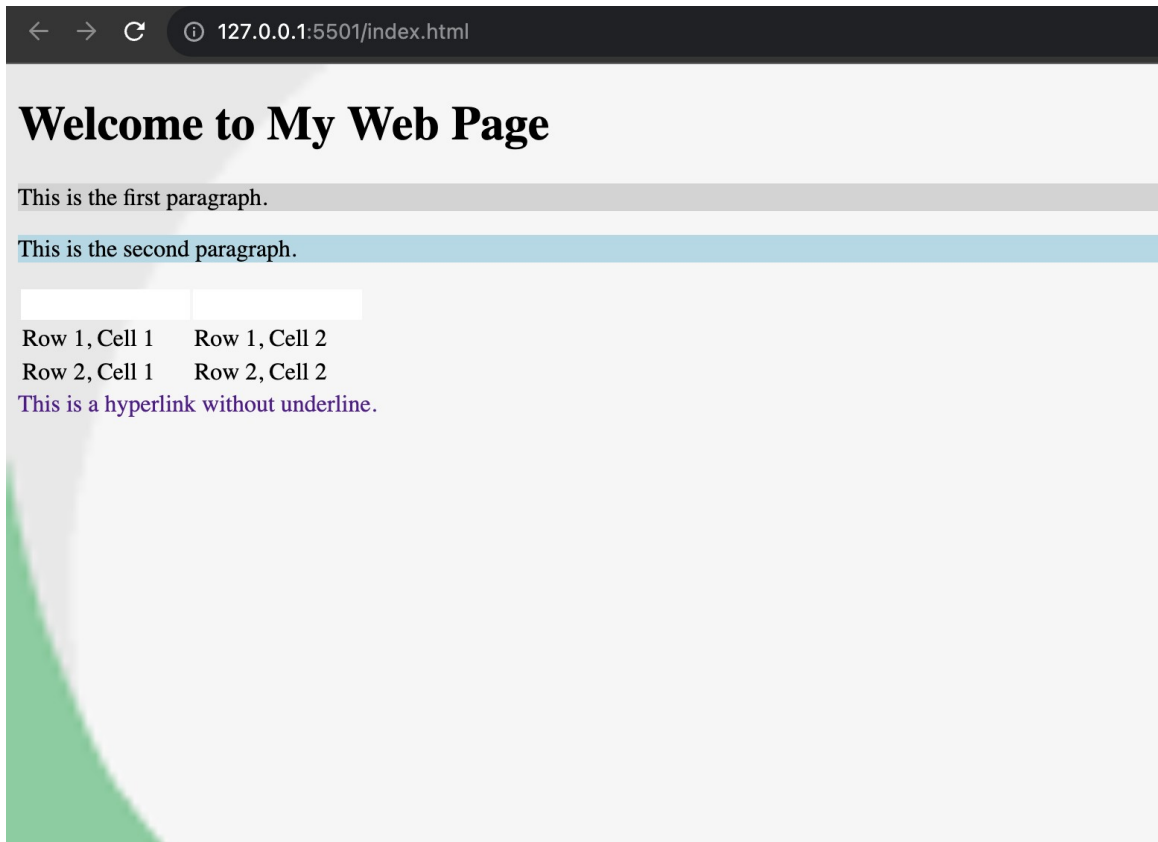
## index.html:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Your Web Page</title>
  <!-- Link the external stylesheet -->
  <link rel="stylesheet" type="text/css" href="style.css">
</head>
<body>
  <h1>Welcome to My Web Page</h1>
  <p>This is the first paragraph.</p>
  <p>This is the second paragraph.</p>

  <table>
    <tr>
      <th>Table Heading 1</th>
      <th>Table Heading 2</th>
    </tr>
    <tr>
      <td>Row 1, Cell 1</td>
      <td>Row 1, Cell 2</td>
    </tr>
    <tr>
      <td>Row 2, Cell 1</td>
      <td>Row 2, Cell 2</td>
    </tr>
  </table>
  <a href="#">This is a hyperlink without underline.</a>
</body>
</html>
```



## OUTPUT:





4. Write a code of bootstrap to create a responsive GitHub sign in page (look alike).

### Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>GitHub Sign In</title>
  <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap/dist/css/bootstrap.min.css">
</head>
<body>
  <div class="container mt-5">
    <div class="row justify-content-center">
      <div class="col-md-6">
        <div class="card">
          <div class="card-header">
            <h3 class="text-center">Sign In to GitHub</h3>
          </div>
          <div class="card-body">
            <form>
              <div class="form-group">
                <label for="username">Username or Email
Address</label>
                <input type="text" class="form-control" id="username"
placeholder="Enter your username or email">
              </div>
              <div class="form-group">
                <label for="password">Password</label>
```



```
<input type="password" class="form-control"
id="password" placeholder="Enter your password">
</div>
<div class="form-group form-check">
  <input type="checkbox" class="form-check-input"
id="rememberMe">
    <label class="form-check-label"
for="rememberMe">Remember me</label>
</div>
<button type="submit" class="btn btn-primary btn-
block">Sign In</button>
</form>
</div>
<div class="card-footer">
  <p class="text-center">New to GitHub? <a href="#">Create an
account</a></p>
  <p class="text-center"><a href="#">Forgot
password?</a></p>
</div>
</div>
</div>
</div>
</div>

<script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
<script
src="https://cdn.jsdelivr.net/npm/bootstrap/dist/js/bootstrap.min.js"></script>
</body>
</html>
```



## OUTPUT:

### Sign In to GitHub

Username or Email Address

Password

☐ Remember me

[Sign In](#)

New to GitHub? [Create an account](#)

[Forgot password?](#)



5. Create a bootstrap code to create alerts of different types and add navbar with titles as Home, Link, More, Options.

## Code:

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Bootstrap Alerts and Navbar</title>

    <!-- Add Bootstrap CSS CDN link here -->

    <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css
">

</head>

<body>

<!-- Navigation Bar -->

<nav class="navbar navbar-expand-lg navbar-light bg-light">

    <a class="navbar-brand" href="#">Home</a>

    <button class="navbar-toggler" type="button" data-toggle="collapse"
data-target="#navbarNav" aria-controls="navbarNav" aria-expanded="false"
aria-label="Toggle navigation">

        <span class="navbar-toggler-icon"></span>
```



```
</button>

<div class="collapse navbar-collapse" id="navbarNav">
  <ul class="navbar-nav">
    <li class="nav-item">
      <a class="nav-link" href="#">Link</a>
    </li>
    <li class="nav-item">
      <a class="nav-link" href="#">More</a>
    </li>
    <li class="nav-item">
      <a class="nav-link" href="#">Options</a>
    </li>
  </ul>
</div>
</nav>
```

```
<!-- Bootstrap Alerts -->

<div class="container mt-4">
  <div class="alert alert-primary" role="alert">
    This is a primary alert.
  </div>
  <div class="alert alert-secondary" role="alert">
    This is a secondary alert.
```



</div>

<div class="alert alert-success" role="alert">

This is a success alert.

</div>

<div class="alert alert-danger" role="alert">

This is a danger alert.

</div>

<div class="alert alert-warning" role="alert">

This is a warning alert.

</div>

<div class="alert alert-info" role="alert">

This is an info alert.

</div>

<div class="alert alert-light" role="alert">

This is a light alert.

</div>

<div class="alert alert-dark" role="alert">

This is a dark alert.

</div>

</div>

<!-- Add Bootstrap JS CDN link and jQuery CDN link here -->

<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"></script>





```
<script  
src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.5.3/dist/umd/popper.min.js"></script>
```

```
<script  
src="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script>
```

```
</body>
```

```
</html>
```

## OUTPUT:

