

Responsive Design

Assignment

QUESTION1: Let's assume you have been Given a task to build a responsive webpage with a navigation menu that adapts to different screen sizes. Initially, on large screens, the webpae should have a horizontal menu that has several navigation items. It looks ood on large screens, but on smaller screens, it should change into a menu icon (like a hamburger) and collapse. The below imaes will provide a clear picture of the task.?

ANSWER:

PROGRAM:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
    <link
        rel="stylesheet"
        href="https://fonts.googleapis.com/css2?family=Material+Symbols+Outlined:opsz,wght,FILL,GRAD@20..48,100..700,0..1,-50..200"
    />

<style>
    .material-symbols-outlined {
        font-variation-settings: "FILL" 0, "wght" 400, "GRAD" 0, "opsz" 48;
        color: #fff;
    }

    nav{
        height: 50px;

        display: flex;
        align-items: center;
        padding: 5px;
    }
}
```

```
background-color: #1b1e2e;
}
body{
    font-family: "Trebuchet MS", "Lucida Sans Unicode", "Lucida Grande",
    "Lucida Sans", Arial, sans-serif;
}

.large{

    max-width: 1200px;
    width: 100%;
    margin: auto;
    justify-content:space-between ;
    display: none;
}

}

.large img{
    width: 50px;
}
.links{
    display: flex;
    align-items: center;
}
.links a{
    color: white;
    margin-right: 25px;
    text-decoration: none;
}

}
.links a:hover{
    scale: 1.1;
    color: #3089d1;
}

}
button{
    background-color: #1488e7;
    color: white;
    border: none;
```

```
border-radius:5px ;
padding: 0px 40px;
margin: 10px 0px;
font-weight: bold;

}

button:hover{
  scale: 1.1;
  cursor: pointer;
}

.small{
  display: flex;
  flex-wrap: wrap;
  margin: 0px 20px;
  justify-content: space-between;
  width: 100%;

}
.small img{
  width: 30px;
}

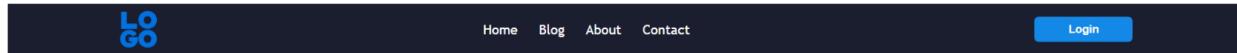
@media screen and (min-width: 800px) {
  .large {
    display: flex;
  }
  .small {
    display: none;
  }
}

</style>
</head>
<body>
```

```
<nav>
  <section class="large">
    
    <div class="links"><a href="#">Home</a><a href="#">Blog</a><a href="#">About</a><a href="#">Contact</a></div>
    <button>Login</button>
  </section>
  <section class="small">
    
    <div>
      <span class="material-symbols-outlined"> menu </span>
    </div>
  </section>
</nav>
```

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

OUTPUT:



QUESTION2:Imagine you are a web developer working for a creative agency that specializes in building visually appealing and interactive websites. The agency has recently received a client request to create a landing page similar to the desing of the one-page website:

<https://www.etonecard.app/>. The client wants to showcase a video prominently on the page to engae visitors.

Your task is to create a simple webpage that replicates the one-page landin page desing, including a responsive layout and an HTML video. The below images are for your reference. Some browsers don't allow you to play videos without the controls attribute. So, you can add controls here, we will learn how to play a video without the controls attribute in the later sections.?

ANSWER:

PROGRAM:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
```

```
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Document</title>
<link
  rel="stylesheet"
  href="https://fonts.googleapis.com/css2?family=Material+Symbols+Outlined:opsz,wght,FILL,GRAD@20..48,100..700,0..1,-50..200"
/>

<style>

.material-symbols-outlined {
  font-variation-settings: "FILL" 0, "wght" 400, "GRAD" 0, "opsz" 48;
  color: #fff;
}

nav{
  height: 50px;

  display: flex;
  align-items: center;
  padding: 5px;

  background-color: #1b1e2e;
}
body{
  font-family: "Trebuchet MS", "Lucida Sans Unicode", "Lucida Grande",
  "Lucida Sans", Arial, sans-serif;
}

.large{

  max-width: 1200px;
  width: 100%;
  margin: auto;
  justify-content:space-between ;
  display: none;

}

.large img{
  width: 50px;
}

.links{
  display: flex;
  align-items: center;
```

```
}

.links a{
    color: white;
    margin-right: 25px;
    text-decoration: none;

}

.links a:hover{
    scale: 1.1;
    color: #3089d1;

}

button{
    background-color: #1488e7;
    color: white;
    border: none;
    border-radius:5px ;
    padding: 0px 40px;
    margin: 10px 0px;
    font-weight: bold;

}

button:hover{
    scale: 1.1;
    cursor: pointer;
}

.small{
    display: flex;
    flex-wrap: wrap;
    margin: 0px 20px;
    justify-content: space-between;
    width: 100%;

}

.small img{
    width: 30px;
}

main{
```

```
max-width: 1200px;  
width: 100%;  
display: flex;  
flex-direction: column;  
margin: auto;  
align-items: center;
```

```
}
```

```
.text{  
height: 600px;  
width: 100%;  
display: flex;  
flex-direction: column;  
justify-content: center;  
margin-left: 20px;
```

```
}
```

```
.text>h3{  
font-size: 30px;  
margin-bottom: 0px;
```

```
}
```

```
.text>h1{  
font-size: 60px;  
margin-top: 5px;  
margin-bottom: 0px;
```

```
color: #1488e7;
```

```
}
```

```
.text>h4{  
font-size: 20px;  
margin: 30px 0px;
```

```
color: #1488e7;
```

```
}
```

```
.text>img{  
width: 60%;
```

```
margin-bottom: 20px;
```

```
}
```

```
main>video{  
width: 90%;  
border: 0;  
outline: 0;
```

```
}
```

```

@media screen and (min-width: 800px) {
    .large {
        display: flex;
    }
    .small {
        display: none;
    }
}

main{
    flex-direction: row;
    align-items: start;
    justify-content: space-between;
}

main>video{
    width: 600px;
    height: 600px;
}

</style>
</head>
<body>
    <nav>
        <section class="large">
            
            <div class="links"><a href="#">Home</a><a href="#">Blog</a><a href="#">About</a><a href="#">Contact</a></div>
            <button>Login</button>
        </section>
        <section class="small">
            
            <div>
                <span class="material-symbols-outlined"> menu </span>
            </div>
        </section>
    </nav>
    <main>
        <div class="text">
            <h3>Say Hi To</h3>
            <h1>One Card</h1>
            <h4>Co-branded Card Issuers:</h4>
            
            <p>India's best metal credit card. Built with full-stack tech. Backed by the principles of simplicity, transparency, and giving back control to the user.</p>
        </div>
    </main>

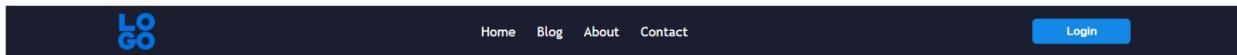
```

```
</video autoplay="autoplay" loop controls> <source src="/VIDEO/say_hi_2x_d3_.mp4" type="video/mp4"></video>
</main>
```

```
</body>
```

```
</html>
```

OUTPUT:



Say Hi To One Card

Co-branded Card Issuers:



India's best metal credit card. Built with full-stack tech. Backed by the principles of simplicity, transparency, and giving back control to the user.



Say Hi To One Card

Co-branded Card Issuers:



India's best metal credit card. Built with full-stack tech.
Backed by the principles of simplicity, transparency, and
giving back control to the user.



QUESTION3:In this coding challenge, your task is to create an information section for the previously built OneCard webpage clone, focusing on the different modes like dark and light modes. The webpage should look different depending on the screen size: dark mode for larger screens and light mode for smaller devices. The reference images are attached below.?

ANSWER:

PROGRAM:

```
<!DOCTYPE html>
<html lang="en">
```

```
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
  <link
    rel="stylesheet"
    href="https://fonts.googleapis.com/css2?family=Material+Symbols+Outlined:opsz,wght,FILL,GRAD@20..48,100..700,0..1,-50..200"
  />

  <style>

    .material-symbols-outlined {
      font-variation-settings: "FILL" 0, "wght" 400, "GRAD" 0, "opsz" 48;
      color: #fff;
    }

    nav{
      height: 50px;

      display: flex;
      align-items: center;
      padding: 5px;

      background-color: #1b1e2e;
    }
    body{
      font-family: "Trebuchet MS", "Lucida Sans Unicode", "Lucida Grande",
      "Lucida Sans", Arial, sans-serif;
    }

    .large{
      max-width: 1200px;
      width: 100%;
      margin: auto;
      justify-content:space-between ;
      display: none;
    }

    .large img{
      width: 50px;
    }
    .links{
```

```
        display: flex;
        align-items: center;
    }

.links a{
    color: white;
    margin-right: 25px;
    text-decoration: none;

}

.links a:hover{
    scale: 1.1;
    color: #3089d1;

}

button{
    background-color: #1488e7;
    color: white;
    border: none;
    border-radius:5px ;
    padding: 0px 40px;
    margin: 10px 0px;
    font-weight: bold;

}

button:hover{
    scale: 1.1;
    cursor: pointer;
}

.small{
    display: flex;
    flex-wrap: wrap;
    margin: 0px 20px;
    justify-content: space-between;
    width: 100%;

}

.small img{
    width: 30px;
}
```

```
main{
    max-width: 1200px;
    width: 100%;
    display: flex;
    flex-direction: column;
    margin: auto;
    align-items: center;
```

```
}
```

```
.text{
    height: 600px;
    width: 100%;
    display: flex;
    flex-direction: column;
    justify-content: center;
    margin-left: 20px;
```

```
}
```

```
.text>h3{
    font-size: 30px;
    margin-bottom: 0px;
```

```
}
```

```
.text>h1{
    font-size: 60px;
    margin-top: 5px;
    margin-bottom: 0px;
```

```
color: #1488e7;
```

```
}
```

```
.text>h4{
    font-size: 20px;
    margin: 30px 0px;
```

```
color: #1488e7;
```

```
}
```

```
.text>img{
    width: 60%;
```

```
margin-bottom: 20px;
```

```
}
```

```
main>video{
    width: 90%;
    border: 0;
```

```
outline: 0;
}

.text2{
    max-width: 1200px;
    width: 100%;
    display: flex;
    flex-direction: column;
    align-items: center;
    margin: auto;
    padding: 100px 0px;

}

.text2>h1{
    font-size: 30px;
    color: #1488e7;

}
.text2>p{

margin-bottom: 0px;
margin-top: 10px;
font-size: 20px;

}

@media screen and (min-width: 800px) {
    .large {
        display: flex;
    }
    .small {
        display: none;
    }

    main{
        flex-direction: row;
        align-items: start;
        justify-content: space-between;

    }

    main>video{
        width: 600px;
        height: 600px;
    }
}
```

```

        }
    .text2{
        background-color: black;
        color: white;
    }

    .text2>p{
        font-size: 40px;
    }

    .text2>h1{
        font-size: 60px;
    }
}

</style>
</head>
<body>
    <nav>
        <section class="large">
            
            <div class="links"><a href="#">Home</a><a href="#">Blog</a><a href="#">About</a><a href="#">Contact</a></div>
            <button>Login</button>
        </section>
        <section class="small">
            
            <div>
                <span class="material-symbols-outlined"> menu </span>
            </div>
        </section>
    </nav>
    <main>
        <div class="text">
            <h3>Say Hi To</h3>
            <h1>One Card</h1>
            <h4>Co-branded Card Issuers:</h4>
            
            <p>India's best metal credit card. Built with full-stack tech. Backed by the principles of simplicity, transparency, and giving back control to the user.</p>
        </div>
        <video autoplay="autoplay" loop controls> <source src="/VIDEO/say_hi_2x_d3_.mp4" type="video/mp4"></video>
    </main>

    <section class="text2">
        <h1>No Hidden Fees Ever</h1>
        <p>No Joining Fees.</p>

```

</p>No Annual Fees.</p>
</p>No Rewards Redemption Fees.</p>
</section>

</body>

</html>

OUTPUT:

The screenshot displays the homepage of the OneCard website. At the top, there is a dark header bar with the 'Lo Go' logo on the left, followed by navigation links for Home, Blog, About, and Contact, and a blue 'Login' button on the right. Below the header, the main headline reads 'Say Hi To One Card' in large, bold, blue text. Underneath this, it says 'Co-branded Card Issuers:' followed by logos for SBM bank, SOUTH INDIAN Bank, CSB Bank, FEDERAL BANK, and BOB Financial. A small text note below these logos states: 'India's best metal credit card. Built with full-stack tech. Backed by the principles of simplicity, transparency, and giving back control to the user.' To the right of the text, there is a black metal credit card with 'FEDERAL BANK' at the top, 'AKSHAY SHARMA' in the center, and 'VISA Signature' at the bottom. Next to the card is a smartphone displaying the OneCard mobile application. The app screen shows a balance of '₹ 61,000.00' and a payment due of '₹ 15,126.79'. The background of the page features a large black rectangular area containing the text 'No Hidden Fees Ever' in white, followed by three bullet points: 'No Joining Fees.', 'No Annual Fees.', and 'No Rewards Redemption Fees.'

Say Hi To
One Card

Co-branded Card Issuers:

SBM bank SOUTH INDIAN Bank CSB Bank
FEDERAL BANK BOB Financial

India's best metal credit card. Built with full-stack tech. Backed by the principles of simplicity, transparency, and giving back control to the user.

No Hidden Fees Ever

No Joining Fees.
No Annual Fees.
No Rewards Redemption Fees.



Say Hi To One Card

Co-branded Card Issuers:



India's best metal credit card. Built with full-stack tech.
Backed by the principles of simplicity, transparency, and
giving back control to the user.



No Hidden Fees Ever

No Joining Fees.

No Annual Fees.

No Rewards Redemption Fees.

QUESTION4:You have been given to create a student dashboard page that includes a student details table" The challenge lies in handling the table's display on different screen sizes" On large screens, the table should be fully visible, while on small screens, it should have an internal scroll to ensure proper visibility of information" Refer to the attached images for visual reference?

ANSWER:

PROGRAM:

```
<!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>
        body{
            background-color: #1b1b1b;
            color: white;
            font-family: "Trebuchet MS", "Lucida Sans Unicode", "Lucida Grande",
            "Lucida Sans", Arial, sans-serif;
        }
        .container{
            max-width: 1200px;
            width: 100%;
            margin: auto;
        }
        .container>h1{
            color: #d3d0d0;
            margin-bottom: 50px;
        }
        .container>table{
            width: 90%;
            margin: auto;
            border-collapse: collapse;
            border: 1px solid white;
            text-align: left;
        }
        th,td{
            padding: 8px;
            border-bottom: 1px solid white;
        }
        @media (max-width:600px){
            table{
```

```
        overflow-x: auto;
        display: block;
    }

    tr,td{
        white-space: nowrap;
        font-size: 18px;
    }

}

</style>
</head>
<body>
    <div class="container">
        <h1>Student Dashboard</h1>
        <table>
            <thead>
                <tr>
                    <th>Name</th>
                    <th>Email</th>
                    <th>Phone</th>
                </tr>
            </thead>
            <tbody>
                <tr>
                    <td>Rahul Sharma</td>
                    <td>rahul.sharma@example.com</td>
                    <td>9876543210</td>
                </tr>
                <tr>
                    <td>Priya Patel</td>
                    <td>priya.patel@example.com</td>
                    <td>8765432109</td>
                </tr>
                <tr>
                    <td>Amit Singh</td>
                    <td>amit.singh@example.com</td>
                    <td>7654321098</td>
                </tr>
                <tr>
                    <td>Sneha Verma      </td>
                    <td>sneha.verma@example.com</td>
                    <td>6543210987</td>
                </tr>
            </tbody>
        </table>
    </div>

```

```
<tr>
<td>Mohit Agarwal</td>
<td>mohit.agarwal@example.com</td>
<td>5432109876</td>
</tr>
<tr>
<td>Neha Gupta</td>
<td>neha.gupta@example.com</td>
<td>4321098765</td>
</tr>
<tr>
<td>Rajesh Kumar</td>
<td>rajesh.kumar@example.com</td>
<td>3210987654</td>
</tr>
<tr><td>Anita Desai      </td>
<td>anita.desai@example.com</td>
<td>2109876543</td>
</tr>
<tr>
<td>Varun Malhotra</td>
<td>varun.malhotra@example.com</td>
<td>1098765432</td>
</tr>
<tr>
<td>Pooja Mehta</td>
<td>pooja.mehta@example.com</td>
<td>0987654321</td>
</tr>
</tbody>

</table>
```

```
</div>
```

```
</body>
```

```
</html>
```

OUTPUT:

Student Dashboard

Name	Email	Phone
Rahul Sharma	rahul.sharma@example.com	9876543210
Priya Patel	priya.patel@example.com	8765432109
Amit Singh	amit.singh@example.com	7654321098
Sneha Verma	sneha.verma@example.com	6543210987
Mohit Agarwal	mohit.agarwal@example.com	5432109876
Neha Gupta	neha.gupta@example.com	4321098765
Rajesh Kumar	rajesh.kumar@example.com	3210987654
Anita Desai	anita.desai@example.com	2109876543
Varun Malhotra	varun.malhotra@example.com	1098765432
Pooja Mehta	pooja.mehta@example.com	0987654321

Student Dashboard

Name	Email
Rahul Sharma	rahul.sharma@example.com
Priya Patel	priya.patel@example.com
Amit Singh	amit.singh@example.com
Sneha Verma	sneha.verma@example.com
Mohit Agarwal	mohit.agarwal@example.com
Neha Gupta	neha.gupta@example.com
Rajesh Kumar	rajesh.kumar@example.com
Anita Desai	anita.desai@example.com
Varun Malhotra	varun.malhotra@example.com
Pooja Mehta	pooja.mehta@example.com



QUESTION5:You are tasked with building a webpage that displays an image gallery using a grid layout. The challenge is to ensure the gallery is visually appealing and functional on both large and small screens. On large screens, the gallery should display multiple images per row, while on small screens, it should collapse into a single column for optimal viewing. Refer to the attached images for visual reference. Implement this using CSS Grid and media queries for responsiveness.?

ANSWER:

PROGRAM:

```
<!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>
        h1{
            font-family: "Trebuchet MS", "Lucida Sans Unicode", "Lucida Grande",
            "Lucida Sans", Arial, sans-serif;
            text-decoration: underline;
            text-align: center;
        }

        .container{
            max-width: 1200px;
            width: 100%;
            display: grid;
            grid-template-columns: repeat(3, 1fr);
            gap: 10px;
            margin: auto;
            padding: 10px;
        }

        .images{
            padding: 2px;
            height: 250px;

            text-align:center;
            border-radius: 20px;
        }

        .images > img{
            width: 100%;
            height: 100%;
            border-radius: 20px;
        }
    </style>

```

```
border: 3px solid black;

}

@media (max-width: 600px){

    .container{
        grid-template-columns: 1fr;
    }
}

</style>
</head>
<body>
<h1>Random Images</h1>
<div class="container">
    <div class="images">
        
    </div>
    <div class="images">
        
    </div>

```

</div>

</body>

</html>

OUTPUT:

Random Images



Random Images



QUESTION6:You have reached the final task of learning responsive web design, which involves designing a responsive footer. Your goal is to build a simple webpage footer that matches the design shown in the attached image. The footer should adapt to different screen sizes, ensuring optimal visibility and alignment of the content. Refer to the attached image for a visual reference.?

ANSWER:

PROGRAM:

```
<!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>
body{
    padding: 0;
    margin: 0;
    min-height: 100vh;
    font-family: "Trebuchet MS", "Lucida Sans Unicode", "Lucida Grande",
    "Lucida Sans", Arial, sans-serif;
    display: flex;
    align-items: flex-end;
}
footer{
    display: grid;
    grid-template-columns: 2fr 1fr 1fr 2fr;
    background-color: #1a1a1a;
}

</style>
</head>
<body>
    <footer>
        <div class="ab">
            <h1>One Card</h1>
```

```
<p>India's best metal credit card. Built with full-stack tech. Backed by the principles of simplicity, transparency, and giving back control to the user.</p>
</div>
<div class="nl">
    <h1>Navigation</h1>
    <ol>
        <li><a href="#">Home</a></li>
        <li><a href="#">About US</a></li>
        <li><a href="#">Careers</a></li>
        <li><a href="#">Offers</a></li>
    </ol>
    </div>
    <div class="nl">
        <h1>Support</h1>
        <ol>
            <li><a href="#">F.A.Q</a></li>
            <li><a href="#">Cookies Policy</a></li>
            <li><a href="#">Terms Of Service</a></li>
            <li><a href="#">Support</a></li>
        </ol>
        </div>
        <div class="em">
            <h1>Newsletter</h1>
            <input type="email" placeholder="Enter your Email Id">
            <button>subscribe</button>
        </div>
    </div>
</body>
</html>
```

OUTPUT:

One Card

India's best metal credit card. Built with full-stack tech.
Backed by the principles of simplicity, transparency,
and giving back control to the user.

Navigation

- [Home](#)
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