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APPLIED OF INFORMATIONAL AND COMMUNICATION TECHNOLOGY

LAB TASK:

Q1: Design a user-friendly form using HTML and CSS.

CODING:

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Form Example</title>
  <style>
    body {
    font-family: Arial, sans-serif;
    margin: 0;
    padding: 0;
    background-color: #f2f2f2;
}

.form-container {
    max-width: 600px;
    margin: 50px auto;
    background: #ffffff;
    padding: 20px;
    border-radius: 5px;
    box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
}

form label {
    font-weight: bold;
    display: block;
    margin-bottom: 8px;
    margin-top: 20px;
}

form input[type="text"],
form select,
form textarea {
    width: 100%;
    padding: 10px;
    margin: 5px 0 20px 0;
    border: 1px solid #ccc;
    border-radius: 4px;
    box-sizing: border-box;
}
```

```css
41
42    form input[type="submit"] {
43        background-color: #04AA6D;
44        color: white;
45        padding: 12px 20px;
46        border: none;
47        border-radius: 4px;
48        cursor: pointer;
49        font-size: 16px;
50    }
51
52    form input[type="submit"]:hover {
53        background-color: #45a049;
54    }
```

```html
55
56      </style>
57  </head>
58  <body>
59      <div class="form-container">
60          <form action="#" method="POST">
61              <label for="fname">First Name</label>
62              <input type="text" id="fname" name="firstname" placeholder="Your name..">
63
64              <label for="lname">Last Name</label>
65              <input type="text" id="lname" name="lastname" placeholder="Your last name..">
66
67              <label for="country">Country</label>
68              <select id="country" name="country">
69                  <option value="australia">Australia</option>
70                  <option value="canada">Canada</option>
71                  <option value="usa">USA</option>
72              </select>
73
74              <label for="subject">Subject</label>
75              <textarea id="subject" name="subject" placeholder="Write something.." style="height:100px"></textarea>
76
77              <input type="submit" value="Submit">
78          </form>
79      </div>
80  </body>
81  </html>
```

OUTPUT:

First Name

Your name..

Last Name

Your last name..

Country

Australia

Subject

Write something..

Submit

Q2. Use CSS Flexbox to create a responsive and functional navigation bar

Requirements:

Create a horizontal navigation bar with links: **Home, About, Services, Blog, and Contact**.
Include a logo on the left side and the navigation links on the right side.

CODING:

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Responsive Navigation Bar</title>
    <style>
        * {
            margin: 0;
            padding: 0;
            box-sizing: border-box;
        }

        body {
            font-family: Arial, sans-serif;
        }

        .navbar {
            display: flex;
            justify-content: space-between;
            align-items: center;
            background-color: #333;
            padding: 10px 20px;
        }

        .navbar .logo {
            font-size: 24px;
            font-weight: bold;
            color: #fff;
            text-decoration: none;
        }

        .navbar ul {
            display: flex;
            list-style: none;
        }

        .navbar ul li {
            margin: 0 15px;
        }
```

```css
        .navbar ul li a {
            text-decoration: none;
            color: #fff;
            font-size: 16px;
            transition: color 0.3s;
        }

        .navbar ul li a:hover {
            color: #007bff;
        }

        /* Responsive Design */
        @media (max-width: 768px) {
            .navbar ul {
                flex-direction: column;
                align-items: flex-end;
                display: none;
            }

            .navbar ul.show {
                display: flex;
            }

            .navbar .toggle {
                font-size: 24px;
                color: #fff;
                cursor: pointer;
                display: block;
            }
        }

        @media (min-width: 769px) {
            .navbar .toggle {
                display: none;
            }
        }
```

```
78          </style>
79      </head>
80      <body>
81          <nav class="navbar">
82              <a href="#" class="logo">MyWebsite</a>
83              <span class="toggle">&#9776;</span>
84              <ul>
85                  <li><a href="#">Home</a></li>
86                  <li><a href="#">About</a></li>
87                  <li><a href="#">Services</a></li>
88                  <li><a href="#">Blog</a></li>
89                  <li><a href="#">Contact</a></li>
90              </ul>
91          </nav>
92
93          <script>
94              // Toggle navigation for mobile view
95              const toggle = document.querySelector('.toggle');
96              const navLinks = document.querySelector('.navbar ul');
97
98              toggle.addEventListener('click', () => {
99                  navLinks.classList.toggle('show');
100             });
101         </script>
102     </body>
103     </html>
```

Output:

| MyWebsite | Home   About   Services   Blog   Contact |

Q3. What are media queries in CSS, and what is the purpose of using them in web design?

CODING:

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Media Queries Example</title>
    <style>
        body {
            margin: 0;
            font-family: Arial, sans-serif;
        }

        .container {
            text-align: center;
            padding: 20px;
        }

        .header {
            background-color: #007bff;
            color: white;
            padding: 20px;
            font-size: 24px;
        }

        .content {
            display: flex;
            flex-wrap: wrap;
            justify-content: center;
            padding: 20px;
        }

        .box {
            width: 30%;
            margin: 10px;
            padding: 20px;
            background-color: #f4f4f4;
            border: 1px solid #ccc;
            border-radius: 8px;
            transition: transform 0.3s;
        }
```

```
41
42          .box:hover {
43              transform: scale(1.05);
44          }
45
46          /* Media Query for Tablets (max-width: 768px) */
47          @media (max-width: 768px) {
48              .box {
49                  width: 45%;
50              }
51          }
52
53          /* Media Query for Mobile (max-width: 480px) */
54          @media (max-width: 480px) {
55              .box {
56                  width: 100%;
57              }
58
59              .header {
60                  font-size: 20px;
61                  padding: 15px;
62              }
63          }
64      </style>
65  </head>
66  <body>
67      <div class="container">
68          <div class="header">Responsive Design with Media Queries</div>
69          <div class="content">
70              <div class="box">Box 1</div>
71              <div class="box">Box 2</div>
72              <div class="box">Box 3</div>
73          </div>
74      </div>
75  </body>
76  </html>
```

OUTPUT:

Responsive Design with Media Queries

Box 1	Box 2

Box 3