TITLE: 6. Program on applying layout to HTML web page.

CODE:

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Responsive Layout Example</title>

    <link rel="stylesheet" href="styles.css">

</head>

<body>

    <header>

        <h1>My Awesome Website</h1>

        <nav>

            <ul>

                <li><a href="#">Home</a></li>

                <li><a href="#">About</a></li>

                <li><a href="#">Services</a></li>

                <li><a href="#">Contact</a></li>

            </ul>

        </nav>

    </header>

    <div class="container">

        <aside class="sidebar">

            <h2>Sidebar</h2>

            <ul>

                <li><a href="#">Link 1</a></li>

                <li><a href="#">Link 2</a></li>

                <li><a href="#">Link 3</a></li>

            </ul>

        </aside>

        <main class="main-content">

            <h2>Main Content Area</h2>

            <p>This is where the main content of the page goes. You can add text, images, videos, and more.</p>

        </main>

    </div>

    <footer>

        <p>&copy; 2024 My Awesome Website. All rights reserved.</p>

    </footer>

</body>

</html>

Styles.css

/\* General Reset \*/

\* {

    box-sizing: border-box;

    margin: 0;

    padding: 0;

}

/\* Global Styles \*/

body {

    font-family: 'Arial', sans-serif;

    background: linear-gradient(135deg, #2b5876, #4e4376); /\* Gorgeous Gradient \*/

    color: #f0f0f0;

    min-height: 100vh;

    padding: 20px;

    display: flex;

    flex-direction: column;

    justify-content: space-between;

}

/\* Header Styles \*/

header {

    background: linear-gradient(90deg, #ff5722, #ff9800); /\* Vibrant Gradient \*/

    color: white;

    text-align: center;

    padding: 20px;

    border-radius: 10px;

    box-shadow: 0 5px 15px rgba(0, 0, 0, 0.3);

}

header h1 {

    font-size: 2.5rem;

    letter-spacing: 2px;

    text-shadow: 2px 2px 8px rgba(0, 0, 0, 0.4);

}

nav ul {

    display: flex;

    justify-content: center;

    gap: 30px;

    margin-top: 10px;

}

nav a {

    color: white;

    text-decoration: none;

    font-weight: bold;

    font-size: 1.1rem;

    transition: color 0.3s ease;

}

nav a:hover {

    color: #ffccbc; /\* Soft hover effect \*/

}

/\* Container and Layout \*/

.container {

    display: grid;

    grid-template-columns: 1fr 3fr;

    gap: 20px;

    margin: 20px 0;

    align-items: start;

}

/\* Sidebar Styles \*/

.sidebar {

    background: rgba(255, 255, 255, 0.1); /\* Transparent white \*/

    padding: 20px;

    border-radius: 10px;

    box-shadow: 0 8px 15px rgba(0, 0, 0, 0.3);

    transition: transform 0.3s ease, box-shadow 0.3s ease;

}

.sidebar:hover {

    transform: scale(1.05);

    box-shadow: 0 15px 30px rgba(0, 0, 0, 0.5);

}

.sidebar h2 {

    font-size: 1.8rem;

    margin-bottom: 15px;

    color: #ff9800;

}

.sidebar a {

    color: #ffccbc;

    text-decoration: none;

    display: block;

    margin-bottom: 10px;

    font-weight: bold;

}

.sidebar a:hover {

    color: white;

}

/\* Main Content Styles \*/

.main-content {

    background: rgba(76, 175, 80, 0.9); /\* Green with opacity \*/

    color: white;

    padding: 30px;

    border-radius: 10px;

    box-shadow: 0 8px 15px rgba(0, 0, 0, 0.3);

    transition: transform 0.3s ease, box-shadow 0.3s ease;

}

.main-content:hover {

    transform: translateY(-10px);

    box-shadow: 0 15px 30px rgba(0, 0, 0, 0.5);

}

.main-content h2 {

    font-size: 2rem;

    margin-bottom: 15px;

    color: #ffeb3b;

}

/\* Footer Styles \*/

footer {

    background: linear-gradient(90deg, #ff5722, #ff9800);

    color: white;

    text-align: center;

    padding: 15px;

    border-radius: 10px;

    box-shadow: 0 5px 15px rgba(0, 0, 0, 0.3);

}

/\* Responsive Design \*/

@media (max-width: 768px) {

    .container {

        grid-template-columns: 1fr; /\* Stack sidebar and content \*/

    }

    nav ul {

        flex-direction: column;

        gap: 15px;

    }

    nav ul li {

        text-align: center;

    }

}

@media (max-width: 480px) {

    header h1 {

        font-size: 2rem;

    }

    .sidebar {

        margin-bottom: 20px;

    }

    .main-content {

        padding: 20px;

    }

}

Output:

