**Creating a Responsive Web Page with Advanced CSS Techniques**

**Scenario:**

You are tasked with creating a **Responsive Personal Portfolio Webpage** that adjusts its layout using CSS Flexbox, Grid, and media queries.

**Step 1: Create а New HTML File**

* Select New File;
* Name file index.html;
* Press enter;
* Select OK.

**Step 2: Build the HTML Structure**

Create a structured HTML document with the following elements:

1. Header: Add a <header> section with your name and tagline.
2. Navigation Bar: Create a <nav> element with three links.
3. Main Content: Include a <main> section containing:
   * A section with a heading and paragraph introducing yourself.
   * An aside with your top skills.

Footer: Add a <footer> containing copyright text.

**Step З: Apply CSS for Layout and Responsiveness**

Create a styles.css file and link it to your HTML document. Use the following CSS concepts:

1. Basic Styling: Reset margins and padding using the \* selector and define a consistent font for the entire webpage.
2. Layout Styling:
   * Use Flexbox to align and space elements in the header, navigation, and main sections.
   * Use Grid for more complex layouts if needed.
3. Media Queries:
   * Ensure the layout adapts for smaller screens (less than 768px).
   * Stack elements vertically (like the sidebar) when the screen size is small.

**Step 4: Testing your page**

1. Open your HTML document in the browser.
2. Resize the browser window to test the responsiveness.
3. Ensure the content stacks vertically and remains readable on small screens.

**HTML:**

!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8" />

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

<title>Dima's Portfolio</title>

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

</head>

<body>

<header>

<div class="header-container">

<h1>Dima</h1>

<p>Aspiring Web Developer & Tech Enthusiast</p>

</div>

</header>

<nav>

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

<a href="#projects">Projects</a>

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

</nav>

<main>

<section>

<h2 id="about">About Me</h2>

<p>

Hello! I'm Dima, a passionate learner with a growing interest in full-stack development.

I enjoy exploring modern web technologies and continuously improving my skills by building fun and

useful projects.

</p>

</section>

<aside>

<h3>Top Skills</h3>

<ul>

<li>HTML & CSS</li>

<li>JavaScript</li>

<li>C# / ASP.NET Core</li>

<li>Git & GitHub</li>

<li>Problem Solving</li>

</ul>

</aside>

</main>

<footer>

<p>**&copy;** 2025 Dima. All rights reserved.</p>

</footer>

</body>

</html>

**CSS:**

\* {

**margin**: **0**;

**padding**: **0**;

**box-sizing**: **border-box**;

}

body {

**font-family**: 'Segoe UI', Tahoma, Geneva, Verdana, **sans-serif**;

**background-color**: **#f5f7fa**;

**color**: **#333**;

**line-height**: **1.6**;

}

header {

**background-color**: **#2c3e50**;

**color**: **#ffffff**;

**padding**: **40px** **20px**;

**box-shadow**: **0** **2px** **8px** rgba(**0**, **0**, **0**, **0.05**);

}

.**header-container** {

**display**: **flex**;

**flex-direction**: **column**;

**align-items**: **center**;

**gap**: **10px**;

}

nav {

**background-color**: **#1f1f1f**;

**display**: **flex**;

**justify-content**: **center**;

**padding**: **12px** **0**;

**gap**: **30px**;

**box-shadow**: **0** **1px** **4px** rgba(**0**, **0**, **0**, **0.05**);

}

nav a {

**color**: **white**;

**text-decoration**: **none**;

**font-weight**: **bold**;

**transition**: **color** **0.3s** **ease**;

**padding**: **6px** **10px**;

}

nav a:**hover** {

**color**: **#4a90e2**;

}

main {

**display**: **flex**;

**gap**: **24px**;

**padding**: **40px** **20px**;

**max-width**: **1200px**;

**margin**: **auto**;

}

section {

**flex**: **3**;

**background-color**: **#ffffff**;

**padding**: **24px**;

**border-radius**: **12px**;

**box-shadow**: **0** **2px** **10px** rgba(**0**, **0**, **0**, **0.03**);

}

aside {

**flex**: **1**;

**background-color**: **#f0f4ff**;

**padding**: **24px**;

**border-radius**: **12px**;

**border**: **1px** **solid** **#d3e0f0**;

}

footer {

**background-color**: **#1f1f1f**;

**color**: **white**;

**text-align**: **center**;

**padding**: **20px** **10px**;

**font-size**: **0.9rem**;

**margin-top**: **60px**;

}

ul {

**padding-left**: **15px**;

}

@**media** (max-width: 768px) {

.**header-container** {

**text-align**: **center**;

}

nav {

**flex-direction**: **column**;

**gap**: **12px**;

**padding**: **10px** **16px**;

}

nav a {

**padding**: **10px** **0**;

}

main {

**flex-direction**: **column**;

**padding**: **30px** **16px**;

}

section,

aside {

**width**: **100%**;

}

}