Experiment 05

HTML Semantic tags, Frames and Media Elements

Question 01

Code:

Main Page:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>23BCE1098 Frames</title>
</head>
<frameset rows="20%,*,15%">
  <!-- Header Frame -->
  <frame src="header.html" name="header"> </frame>
  <frameset cols="15%,*,15%">
    <!-- Navigation Frame -->
    <frame src="navigation.html" name="navigation"> </frame>
    <!-- Main Content Frame -->
    <frame src="content.html" name="content"> </frame>
    <!-- Aside Frame -->
    <frame src="aside.html" name="aside"> </frame>
  </frameset>
  <!-- Footer Frame -->
  <frame src="footer.html" name="footer"> </frame>
</frameset>
</html>
```

Content Page:

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>Professional Resume</title>
</head>
<body>
 <br>
 <section id="about-me">
  <h2>About Me</h2>
  A motivated software engineer with 5+ years of experience in building scalable web
applications.
  <figure align="center">
   <img src="profile.png" alt="Profile Photo" width="150">
   <figcaption>John Doe - Software Engineer</figcaption>
  </figure>
 </section>
 <br>
 <section id="education">
  <h2>Education</h2>
  <article>
   <h3>Bachelor of Technology in Computer Science</h3>
   XYZ University, 2015 - 2019
  </article>
 </section>
 <br>
 <section id="experience">
  <h2>Experience</h2>
  <article>
   <h3>Software Engineer</h3>
   ABC Corporation, 2019 - Present
   <ul>
    Developed and deployed web applications using JavaScript, Node.js, and Python.
    Optimized system performance, reducing load time by 30%.
   </article>
 </section>
 <br>
```

```
<section id="skills">
  <h2>Skills</h2>
  <article>
   <h3>Proficiency Levels</h3>
   Programming:
   cprogress value="80" max="100"></progress>
   Problem Solving:
   cprogress value="70" max="100"></progress>
   Project Management:
   cprogress value="60" max="100"></progress>
  </article>
 </section>
 <br
 <section>
  <h2>Achievements</h2>
  <meter value="85" min="0" max="100">85%</meter> Certification in Advanced Programming
 </section>
 <br
 <section>
  <details>
   <summary>Additional Information</summary>
   Hobbies: Hiking, Reading, Traveling
   Future Goals: To contribute to open-source projects and mentor aspiring developers.
  </details>
 </section>
</body>
</html>
```

Header Page:

Footer Page:

```
<!DOCTYPE html>
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Footer</title>
</head>

<body>
<footer align="center">
&copy; 2025 John Doe. All rights reserved.
Contact: johndoe@example.com | Phone: +123-456-7890
LinkedIn: <a href="#">linkedin.com/in/johndoe</a>
</footer>
</body>
</html>
```

Navigation Page:

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>Navigation</title>
</head>
<body>
 <nav>
  <ul>
   <a href="content.html#about-me" target="content-frame"><font size="5">About</a>
Me</font></a>
   <a href="content.html#education" target="content-frame"><font</a>
size="5">Education</font></a>
   <a href="content.html#experience" target="content-frame"><font</a>
size="5">Experience</font></a>
   <a href="content.html#skills" target="content-frame"><font
size="5">Skills</font></a>
  </nav>
</body>
</html>
```

Aside Page:

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>Aside</title>
</head>
<body>
 <aside>
  <h2>Quick Facts</h2>
  \langle ul \rangle
   Certified in Full-Stack Development
   5+ years of industry experience
   Proficient in JavaScript, Python, and Node.js
  </aside>
</body>
</html>
```

Output:

My Professional Resume

John Doe

Software Engineer | Problem Solver | Innovator

- · About Me
- Education
- Experience
- Skills

About Me

A motivated software engineer with 5+ years of experience in building scalable web applications.



Education

Bachelor of Technology in Computer Science

XYZ University, 2015 - 2019

Experience

Quick Facts

- · Certified in Full-Stack
- Certified in Full-Stack
 Development

 5+ years of industry
 experience
 Proficient in JavaScript,
 Python, and Node.js

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Contact: johndoe@example.com | Phone: +123-456-7890

LinkedIn: linkedin.com/in/johndoe

My Professional Resume

John Doe

Software Engineer | Problem Solver | Innovator

- About Me
- Education
- Experience
- · Skills

ABC Corporation, 2019 - Present

- Developed and deployed web applications using JavaScript, Node.js, and Python.
 Optimized system performance, reducing load time by 30%.

Skills

Proficiency Levels

Programming:

Problem Solving:

Achievements

Certification in Advanced Programming

► Additional Information

Contact: johndoe@example.com | Phone: +123-456-7890

LinkedIn: linkedin.com/in/johndoe

Quick Facts

- Certified in Full-Stack
 Development

 5+ years of industry
 experience
 Proficient in JavaScript,
 Python, and Node.js

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Question 02

Code:

Main Page:

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>23BCE1098 Media Elements</title>
</head>
<frameset cols="20%,*">
<frame src="left.html"></frame>
<frame src="right.html"></frame>
</frameset>
</html>
```

House Page:

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>Document</title>
</head>
<body>
 <svg width="200" height="300" xmlns="http://www.w3.org/2000/svg">
  <polygon points="50,100 150,100 100,50" fill="red" stroke="black" stroke-width="1" />
  <circle cx="100" cy="80" r="10" fill="yellow" />
  <rect x="50" y="100" width="100" height="150" fill="brown" stroke="black" stroke-width="1"/>
  <rect x="60" y="120" width="30" height="30" fill="lightblue" stroke="black" stroke-width="1"/>
  <rect x="110"y="120" width="30" height="30" fill="lightblue"stroke="black" stroke-width="1"/>
<rect x="85"y="190"width="30" height="60" fill="saddlebrown"stroke="black" stroke-width="1"/>
  <rect x="75" y="250" width="50" height="10" fill="gray" />
  <rect x="80" y="260" width="40" height="10" fill="darkgray" />
  <polygon points="140,50 145,65 160,65 148,75 152,90 140,80 128,90 132,75 120,65 135,65"</p>
fill="yellow" />
  <path d="M170,50 A15,15 0 1,1 150,50 A10,10 0 1,0 170,50" fill="yellow" />
 </svg>
</body>
</html>
```

Right Page:

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Document</title>
</head>
<body>
<div id="svg">
<h1>My House using SVG</h1>
<iframe src="house.html" title="SVG Content" width="400" height="400"></iframe>
</div>
</div>
</body>
</html>
```

Left Page:

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>Document</title>
</head>
<body>
 <div id="audio">
  <h2>Audio</h2>
  <audio controls>
   <source src="audio.mp3" type="audio/mpeg">
   Your browser does not support the audio element.
  </audio>
 </div>
 <div id="video">
  <h2>Video</h2>
  <video controls>
   <source src="video.mp4" type="video/mp4">
   Your browser does not support the video element.
  </video>
 </div>
 < div >
  <canvas id="laptopCanvas" width="400" height="300"></canvas>
```

```
</div>
<script>
 const canvas = document.getElementById('laptopCanvas');
 const ctx = canvas.getContext('2d');
 const gradient = ctx.createLinearGradient(0, 0, 0, canvas.height);
 gradient.addColorStop(0, '#6a0d00');
 gradient.addColorStop(1, '#ff0000');
 ctx.fillStyle = gradient;
 ctx.fillRect(0, 0, canvas.width, canvas.height);
 ctx.fillStyle = '#d3d3d3';
 ctx.fillRect(100, 230, 200, 15);
 ctx.fillStyle = '#000000';
 ctx.fillRect(110, 50, 180, 150);
 ctx.lineWidth = 5;
 ctx.strokeStyle = '#4d4d4d';
 ctx.strokeRect(110, 50, 180, 150);
 ctx.beginPath();
 ctx.arc(200, 125, 50, 0, 2 * Math.PI);
 ctx.fillStyle = 'rgba(255, 255, 0, 0.2)';
 ctx.fill();
 ctx.beginPath();
 ctx.arc(200, 125, 40, 0, 2 * Math.PI);
 ctx.fillStyle = 'rgba(255, 255, 0, 0.4)';
 ctx.fill();
 ctx.beginPath();
 ctx.arc(200, 125, 30, 0, 2 * Math.PI);
 ctx.fillStyle = 'rgba(255, 255, 0, 0.6)';
 ctx.fill();
 ctx.fillStyle = '#a9a9a9';
 ctx.fillRect(180, 215, 40, 15);
</script>
</body>
</html>
```

Output:

