

Programme	:	B.Tech.	Semester	:	Winter24-25
Course	:	BCSE203E: Web Programming Lab	Slot	:	TE1/TE2
Faculty	:	Dr. LM Jenila Livingston	Marks	:	10

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Exercise –5

HTML –Semantic tags, Frames and Media Elements

(A) Design a web page using HTML frames to divide it into multiple sections, including a **header**, **navigation**, **main content**, **aside**, and **footer**. In the **main content frame**, create a professional resume using semantic HTML5 tags. Incorporate the following elements:

1. **<header>**: For the top section, showcasing your name, professional title, and a tagline.
2. **<nav>**: To provide navigation links for easy access to various sections of the resume (e.g., About Me, Education, Experience, Skills).
3. **<section>**: To structure key content areas, such as education, work experience, and technical skills.
4. **<article>**: To detail specific achievements, projects, or publications.
5. **<aside>**: To display supplementary information, such as quick facts, a brief profile summary, or links to a portfolio.
6. **<figure>**: To include images (e.g., profile photo or project visuals) with captions.
7. **<progress>**: To visually represent proficiency levels for different skills.
8. **<meter>**: To highlight measurable achievements, certifications, or milestones.
9. **<details>** and **<summary>**: To toggle additional information, such as hobbies, extracurricular activities, or future goals.
10. **<footer>**: To include contact details, social media links, and additional resources.

Ensure the page is divided as follows:

- The **header** is displayed in a dedicated frame at the top.
- The **navigation** is shown in a vertical frame on the left.
- The **main content** occupies the central frame.
- The **aside** is placed in a frame on the right for supplementary information.
- The **footer** is displayed in a frame at the bottom.

Focus on creating a visually appealing, accessible, and well-structured layout. The sample webpage is shown below.

Sample Page:

My Professional Resume

About Me

Education

Experience

Skills


Media

John Doe

Software Engineer | Problem Solver | Innovator

About Me

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



John Doe - Software Engineer

Quick Facts

- Proficient in HTML5, CSS3, and JavaScript
- 5+ years of professional experience
- Certified Scrum Master
- Published 3 technical articles

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Contact: [johndoe@example.com](mailto: johndoe@example.com)


Resume frame content

John Doe

Software Engineer | Problem Solver | Innovator

About Me

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



John Doe - Software Engineer

Education

Bachelor of Technology in Computer Science

XYZ University, 2018 - 2019

Experience

Software Engineer

ABC Corporation, 2019 - Present

- Developed and maintained web applications using JavaScript and Python.
- Optimized database performance, improving query speed by 30%.

Skills

Quick Facts

- Proficient in JavaScript, Python, and C++.
- Certified AWS Developer.

Programming

Problem Solving

Project Management

Contact: [johndoe@example.com](mailto: johndoe@example.com) | Phone: (123) 456-7890

(B) Display media and graphic elements (given below) on the centre frame by clicking the navigation link Media (Audio, Video, SVG and Canvas). Use **iframe** for displaying SVG

My House using SVG

Audio

1:27

Video

0:08

Canvas

