Assignment 1

Progressive Web Apps

1. Describe the structure of a basic HTML document.Include a code example.
2. Explain how forms work in HTML. Design a detailed registration form using various input types such as text, password, radio, checkbox, email, and dropdown. Add submit and reset buttons and describe each part.
3. Explain the importance of Progressive Web Apps (PWA) in modern development. How do they improve user experience compared to traditional websites? Create a basic layout of a PWA homepage using HTML and internal CSS.
4. Differentiate between div and span tags with examples
5. Explain five different types of CSS selectors with syntax and describe how each one is used to style elements on a webpage.
6. List and briefly describe the components of the CSS Box Model. How does each part affect the layout of an HTML element?
7. What is the purpose of the display property in CSS? List any four common values and explain their function.
8. How does CSS positioning work (static, relative, absolute,fixed, and sticky)? Explain each type and provide examples showing how they influence element placement on a webpage.
9. Create a CSS stylesheet that demonstrates the use of RGB, RGBA, HEX, HSL, and HSLA to style different HTML elements.
10. What is a CSS transition? List and explain any four transition-related properties with example