

HTML QUESTIONS

1. What does HTML stand for?
2. What is the purpose of HTML?
3. What are HTML tags?
4. What is the structure of an HTML document?
5. What is the difference between block-level and inline elements?
6. What is the use of the `<head>` tag in HTML?
7. How do you create a hyperlink in HTML?
8. What is the purpose of the `<meta>` tag?
9. What are void elements in HTML? Give examples.
10. How can you include CSS in an HTML document?
11. What is the difference between `<div>` and ``?
12. Explain the use of the `<form>` tag in HTML.
13. What are semantic elements in HTML5? Give examples.
14. How do you create a table in HTML?
15. What is the purpose of the `<iframe>` tag?
16. How can you embed a video in an HTML page?
17. What is the difference between the `` and `` tags?
18. How do you create a list in HTML?
19. What is the purpose of the `<canvas>` element?
20. Explain the use of the `<audio>` tag in HTML5.
21. Write the HTML code to create a simple form.
22. How do you include an external JavaScript file in an HTML document?
23. Write the HTML code to create a navigation bar.
24. How do you create a responsive image in HTML?
25. Write the HTML code to create a footer section.
26. How do you use the `<blockquote>` tag?
27. Write the HTML code to create a dropdown menu.
28. How do you create a modal dialog in HTML?
29. Write the HTML code to create a grid layout.
30. How do you implement a slideshow using HTML?
31. What are the new input types introduced in HTML5?
32. Explain the use of the `<source>` tag in media elements.
33. How do you use the `<track>` tag with video elements?
34. What is the purpose of the `<output>` tag?
35. How do you use the `<details>` and `<summary>` tags?
36. What is the purpose of the `<dialog>` element in HTML5?
37. How do you create a web application manifest file?
38. Explain the use of the `<webview>` tag.
39. What is the purpose of the `<script>` tag's `defer` attribute?

40. How do you use the `<svg>` tag in HTML5?
41. What is the Document Object Model (DOM)?
42. How does HTML differ from XHTML?
43. What are the advantages of using HTML5 over previous versions?
44. Explain the concept of web accessibility in HTML.
45. What is the role of the `<noscript>` tag?
46. How do you optimize HTML for search engines?
47. What are ARIA roles in HTML?
48. How do you handle form validation in HTML5?
49. What is the purpose of the `alt` attribute in images?
50. Explain the concept of responsive design in HTML.
51. Write HTML code to create a simple webpage layout.
52. How do you create a sticky header using HTML and CSS?
53. Write the HTML code to create a contact form.
54. How do you implement a breadcrumb navigation in HTML?
55. Write the HTML code to create a sidebar.
56. How do you create a tooltip in HTML?
57. Write the HTML code to create a pricing table.
58. How do you create a responsive table in HTML?
59. Write the HTML code to create a login form.
60. How do you implement a search bar in HTML?
61. What is the purpose of the `lang` attribute in HTML?
62. How do you create a favicon for a webpage?
63. What is the difference between `GET` and `POST` methods in forms?
64. How do you use the `<base>` tag in HTML?
65. What is the purpose of the `target` attribute in links?
66. How do you create a custom HTML element?
67. What is the role of the `<style>` tag in HTML?
68. How do you use the `<link>` tag to include stylesheets?

CSS QUESTIONS

69. What does CSS stand for?
70. What is the purpose of CSS?
71. How do you include CSS in an HTML document?
72. What are the different ways to apply CSS to a web page?
73. What is the difference between class selectors and ID selectors?
74. What are CSS properties?
75. What is the CSS box model?
76. How do you center a block element in CSS?

77. What is the difference between padding and margin?
78. What are CSS pseudo-classes? Give examples.
79. What are CSS pseudo-elements? Give examples.
80. Explain the concept of specificity in CSS.
81. What is the difference between inline, internal, and external CSS?
82. How do you create a responsive design using CSS?
83. What are media queries in CSS?
84. What is Flexbox and how is it used in CSS?
85. What is CSS Grid Layout?
86. How do you implement transitions in CSS?
87. What are CSS animations and how do they differ from transitions?
88. Explain the use of the `z-index` property.
89. What are CSS preprocessors? Name a few.
90. How do you use variables in CSS?
91. What is the purpose of the `calc()` function in CSS?
92. Explain the concept of CSS frameworks. Name a few popular ones.
93. What is the difference between absolute, relative, fixed, and sticky positioning?
94. How do you create a CSS sprite?
95. What are CSS filters and how do you use them?
96. Explain the concept of responsive typography in CSS.
97. What is the `@import` rule in CSS?
98. How do you optimize CSS for performance?
99. Write CSS code to create a simple button style.
100. How do you create a grid layout using CSS?
101. Write CSS code to style a navigation bar.
102. How do you create a hover effect on a link?
103. Write CSS code to create a responsive image.
104. How do you implement a sticky footer using CSS?
105. Write CSS code to create a modal dialog.
106. How do you create a tooltip using CSS?
107. Write CSS code to create a card layout.
108. How do you implement a dropdown menu using CSS?
109. What are the new features introduced in CSS3?
110. Explain the use of the `@media` rule in CSS3.
111. How do you create rounded corners in CSS?
112. What is the purpose of the `box-shadow` property?
113. How do you create gradients in CSS?
114. Explain the use of the `transform` property in CSS.
115. What is the `transition` property and how is it used?
116. How do you create a responsive layout with CSS Grid?
117. What are CSS variables and how do you declare them?
118. How do you use the `filter` property in CSS?
119. What is the difference between CSS and CSS3?

120. How does the cascade work in CSS?
121. What are the advantages of using CSS?
122. Explain the concept of web accessibility in CSS.
123. What is the role of the `!important` declaration in CSS?
124. How do you handle browser compatibility issues in CSS?
125. What are ARIA attributes and how do they relate to CSS?
126. How do you optimize CSS for SEO?
127. What is the purpose of the `display` property in CSS?
128. Explain the concept of mobile-first design in CSS.
129. Write CSS code to create a simple layout with a header, footer, and main content area.
130. How do you create a responsive navigation bar using CSS?
131. Write CSS code to create a pricing table.
132. How do you implement a CSS-only accordion?
133. Write CSS code to create a sidebar layout.
134. How do you create a CSS grid for a photo gallery?
135. Write CSS code to create a custom checkbox.
136. How do you create a responsive card component using CSS?
137. Write CSS code to create a login form.
138. How do you implement a search bar using CSS?
139. What is the purpose of the `font-family` property in CSS?
140. How do you create a favicon using CSS?
141. What is the difference between `display: none` and `visibility: hidden`?
142. How do you use the `opacity` property in CSS?
143. What is the purpose of the `overflow` property in CSS?
144. How do you create a custom scrollbar using CSS?
145. What is the role of the `line-height` property in CSS?
146. How do you use the `text-shadow` property in CSS?
147. What is the purpose of the `white-space` property in CSS?
148. How do you create a CSS-only image slider?

JAVASCRIPT QUESTIONS

149. What is JavaScript?
150. What are the primitive data types in JavaScript?
151. Explain the concept of variables in JavaScript.
152. What is the difference between `let`, `const`, and `var`? 5 . What is hoisting in JavaScript?
153. Explain the concept of scope in JavaScript.
154. What are functions in JavaScript?
155. What is a callback function?
156. What is the difference between synchronous and asynchronous programming?
157. What are JavaScript objects?
158. How do you create an object in JavaScript?
159. What is the prototype chain?
160. Explain the concept of closures in JavaScript.
161. What is the `this` keyword in JavaScript?
162. What are arrow functions?
163. What is the purpose of the `bind()`, `call()`, and `apply()` methods?
164. What is event bubbling and event capturing?
165. How do you handle events in JavaScript?
166. What is the Document Object Model (DOM)?
167. How do you manipulate the DOM using JavaScript?
168. What are JavaScript arrays?
169. How do you iterate over an array in JavaScript?
170. What is the difference between `forEach()` and `map()`?
171. What are template literals in JavaScript?
172. Explain the concept of promises in JavaScript.
173. What is `async/await` in JavaScript?
174. What are JavaScript modules?
175. How do you import and export modules in JavaScript?
176. What is the difference between `==` and `===`?
177. What is the purpose of the `typeof` operator?
178. What is NaN in JavaScript?
179. How do you check if a variable is an array?
180. What is the difference between `null` and `undefined`?
181. What are higher-order functions?
182. What is recursion in JavaScript?
183. How do you create a function that returns another function?
184. What is the `setTimeout()` function?
185. What is the `setInterval()` function?
186. How do you clear a timeout or interval?
187. What is the purpose of the `fetch()` API?
188. How do you handle errors in JavaScript?

189. What is the `try...catch` statement?
190. What are JavaScript data structures?
191. What is the difference between a stack and a queue?
192. What is a hash table?
193. Explain the concept of closures with an example.
194. What is the purpose of the `localStorage` and `sessionStorage`?
195. How do you create a simple JavaScript class?
196. What is inheritance in JavaScript?
197. What are static methods in JavaScript classes?
198. What is the `super` keyword?
199. How do you create a constructor function?
200. What is the difference between `Object.create()` and `new`?
201. What is the `instanceof` operator?
202. How do you check if an object is an instance of a class?
203. What is the purpose of the `Object.assign()` method?
204. How do you clone an object in JavaScript?
205. What is the spread operator?
206. What is destructuring in JavaScript?
207. How do you handle asynchronous operations in JavaScript?
208. What is the purpose of the `Promise.all()` method?
209. What is the `Promise.race()` method?
210. How do you create a simple event listener?
211. What is the purpose of the `preventDefault()` method?
212. What is the `stopPropagation()` method?
213. How do you create a custom event in JavaScript?
214. What is the purpose of the `window` object?
215. How do you access the current URL in JavaScript?
216. What is the `navigator` object?
217. How do you detect the user's browser in JavaScript?
218. What is the `console` object?
219. How do you log messages to the console?
220. What is the purpose of the `debugger` statement?
221. How do you create a simple JavaScript timer?
222. What is the `Math` object in JavaScript?
223. How do you generate a random number in JavaScript?
224. What is the purpose of the `JSON` object?
225. How do you parse a JSON string in JavaScript?
226. How do you convert an object to a JSON string?
227. What is the `Array.prototype.reduce()` method?
228. How do you find the maximum value in an array?
229. What is the `filter()` method in JavaScript?

230. What is the Internet?
231. What is the World Wide Web (WWW)?
232. What is the difference between the Internet and the Web?
233. What is a web browser? Give examples.
234. What are web servers?
235. What is HTTP?
236. What is HTTPS, and why is it important?
237. What is a URL? Explain its components.
238. What is DNS (Domain Name System)?
239. What is a domain name?
240. What is an IP address?
241. What is the difference between IPv4 and IPv6?
242. What is a web application?
243. What is the difference between a static and a dynamic website?
244. What are cookies, and how are they used?
245. What is a session in web development?
246. What is the purpose of a web API?
247. What is AJAX, and how does it work?
248. What is a RESTful API?
249. What is the purpose of the `<head>` tag in HTML?
250. What is the role of CSS in web development?
251. What is JavaScript, and how is it used in web development?
252. What is responsive web design?
253. What are media queries in CSS?
254. What is the purpose of the `<meta>` tag in HTML?
255. What are the different types of HTTP methods?
256. What is a CDN (Content Delivery Network)?
257. What is SSL/TLS?
258. What is web hosting?
259. What is the difference between shared hosting and dedicated hosting?
260. What is a web framework? Give examples.
261. What is the purpose of version control systems like Git in web development?
262. What is CORS (Cross-Origin Resource Sharing)?
263. What is the purpose of the robots.txt file?
264. What is SEO (Search Engine Optimization)?
265. What are web standards?
266. What is the role of a front-end developer?
267. What is the role of a back-end developer?
268. What is a full-stack developer?
269. What is the difference between a web app and a mobile app?
270. What is a progressive web app (PWA)?
271. What are some common web security threats?

- 272. **What is XSS (Cross-Site Scripting)?**
- 273. **What is CSRF (Cross-Site Request Forgery)?**
- 274. **What is SQL Injection?**
- 275. **What is the purpose of the `<script>` tag in HTML?**
- 276. **What is the difference between GET and POST requests?**
- 277. **What is a sitemap?**
- 278. **What are the benefits of using a framework like Bootstrap?**
- 279. **What is the difference between a library and a framework in web development?**