

Short Answer:

Answer the following questions with complete sentences in **your own words**. You are encouraged to conduct your own research online or through other methods before answering the questions. If you research online, please consult multiple sources before you write down your answers.

1. What is HTML?
2. What is block element? How is it different from inline elements?
3. What is the importance of the meta tag?
4. What would happen if you clicked on a link created using ``?
5. What is iframe?
6. What is CSS?
7. How do you import CSS?
8. What are the different types of CSS selectors?
9. What are the different types of attribute selectors?
10. What is a pseudo-class?
11. What is a pseudo-element?
12. What are two ways that we can make an element invisible? What is the difference?
13. What is SVG and why do we use it?
14. What is the Box Model? Describe each part.
15. What is the difference between margin and padding?
 1. Can padding be negative? Can margin be negative?
16. Assume an element has the following properties. What is the element size (width & height)? Please explain how you arrived at your solution.
width: 100px; height: 100px;
margin: 20px 50px;
padding: 10px 10px;
border: 2px;
17. Assume an element has the following properties. What is the element size (width & height)? Please explain how you arrived at your solution.
width: 100px; height: 100px;
margin: 20px 50px;
padding: 10px 10px;
border: 2px;
box-sizing: border-box;
18. Assume a parent element has *width = 200px* and one child element. If the child element's width is set to 'auto', what are the values of its width, left-margin, & right-margin?
19. Assume a parent element has *width = 200px* and one child element with *width=100px*. If the child element's margin-right is set to 'auto', what is the child element's left-margin & right-margin values?
20. Assume a parent element has *width = 200px* and one child element with *width=100px*. If the child's margin is set to 'auto', what is its left-margin & right-margin values?
 1. What is the left & right margin values if the child's width was 300px?

Coding Questions:

Use HTML and CSS to solve the following problems. You are highly encouraged to present more than one way to answer the questions. Please follow best practice when you write the code so that it would be easily readable, maintainable, and efficient. Clearly state your assumptions if you have any. You may discuss with others on the questions, but please write your own code.

1. Implement the following table. (Hint: colspan & rowspan)

My Schedule					
	Monday	Tuesday	Wednesday	Thursday	Friday
Breakfast	In lair	with cronies	In lair	in lair	in lair
Morning	Design traps		Improve Hideout		
Afternoon	train minions	train minions	train minions	train minions	world domination
Evening	manaical laughter	manaical laughter	manaical laughter	manaical laughter	

2. Implement the following list. (Hint: pseudo classes & pseudo elements)
 - When an odd item (I,III, A,C, etc.) is hovered over, its background color should turn yellow.
 - When an even item (II,IV, B,D, etc.) is hovered over, its first character should turn red and increase in font size to 35px.

- I. Background Skills
 - A. Unix Commands
 - B. Vim Text Editor
- II. HTML
 - A. Minimal Page
 - B. Headings
 - C. Tags
 - D. Lists
 - i. Unordered
 - ii. Ordered
 - iii. Definition
 - iv. Nested
 - E. Links
 - i. Absolute
 - ii. Relative
 - F. Images
- III. CSS
 - A. Anatomy
 - B. Basic Selectors
 - i. Element
 - ii. Class
 - iii. ID
 - iv. Group
 - C. The DOM
 - D. Advanced Selectors
 - E. Box Model
- IV. Programming
 - A. Python
 - B. JavaScript
- V. Database
 - A. Flat File
 - B. Relational

3. Given the following directory structure and sample UI, create a simple file manager or file browser for navigating this directory.
- When the user clicks on a folder (web, css, images...), it will redirect you to a page that displays all of the folder's subfolders & files.
 - When the user clicks on a file, nothing happens.
 - Size can be any file size.
 - Date Modified can be any timestamp.

web		
css		
email.less		
print.less		
source		
_actions-toolbar.less		
_breadcrumbs.less		
_buttons.less		
components		
_modals_extend.less		
_icons.less		
_layout.less		
_theme.less		
_tooltips.less		
_typography.less		
_variables.less		
_styles.less		
styles-l.less		
styles-m.less		
images		
logo.svg		
js		
navigation-menu.js		
responsive.js		
theme.js		
Acrobat		PM
Broker/		PM
Broker.l		PM
Web_Us		PM
alm_sup		PM
armdl-test.txt	24 B	8/20/09, 7:00:00 PM
bin	0 B	8/17/15, 7:00:00 PM
dev/		4/21/01, 7:00:00 PM
docs	0 B	11/26/17, 6:00:00 PM
ftp	0 B	8/17/15, 7:00:00 PM
jul15_2019/		7/15/19, 12:35:00 PM
lbtest.txt	2.7 kB	4/25/05, 7:00:00 PM
lib/		5/18/04, 7:00:00 PM
license.txt	2.7 kB	5/31/98, 7:00:00 PM
pub/		11/12/19, 12:06:00 AM

4. Implement the following questionnaire.

- You are only able to select one gender.
- Users should be able to upload a file when clicking 'Attach Files'.
- Political Persuasion (dropdown with options: Left Wing, Right Wing, Conservative)
- Education Level Completed (dropdown with options: University/College, High School, None)

Application for permission to date my daughter

Note: Form is to be completed at least 21 days prior to date

<p>Personal Details</p> <p>Name: <input type="text" value="Enter name here"/></p> <p>Address: <input type="text" value="Enter address here"/></p> <p>Email: <input type="text" value="Enter email here"/></p> <p>Phone Number: <input type="text" value="Enter 10 digit number"/></p> <p>IQ: <input type="text" value="Enter IQ here"/></p> <p>Gender</p> <p><input checked="" type="radio"/> Male</p> <p><input type="radio"/> Female</p> <p><input type="radio"/> Other</p> <p>Date of Proposed Outing: <input type="text" value="mm/dd/yyyy"/> <input type="button" value="Calendar"/></p>
<p>Check All That Apply</p> <p><input type="checkbox"/> I have tattoos and/or piercings</p> <p><input type="checkbox"/> I am more than 2 years older than my daughter</p> <p><input type="checkbox"/> I own a panel van or V8 ute</p> <p><input checked="" type="checkbox"/> I work full-time</p> <p><input checked="" type="checkbox"/> My parents are rich</p> <p><input checked="" type="checkbox"/> Is the date at a well lit public location</p>
<p>Political Persuasion: <input type="text" value="Left Wing"/> <input type="button" value="v"/></p> <p>Education Level Completed: <input type="text" value="University"/> <input type="button" value="v"/></p>
<p>Essay Section</p> <p>In 50 words or more explain why you want to date my daughter</p> <p><input type="text" value="Enter Text Here"/></p> <p>Please upload contact details for 2 references</p> <p><input type="text" value="Enter Text Here"/></p> <p>Upload Police Clearance Certificate, Bank Statement and Medical Certificates here: <input type="button" value="Attach Files"/></p>
<p><input type="button" value="Send your application"/></p>

5. W3 schools HTML Quiz

Finish the HTML Quiz from https://www.w3schools.com/html/html_quiz.asp. Please attach the screenshot of your results.