Codify Academy weekly questions – as of Jan 2018-01-28

**Week 1**

**In Class Quiz**

1. How do you write the HTML for an <h1> inside a <div>?
2. If an element has a class of “box”, how would you write the CSS for making its background-color red?
3. How do you connect your CSS and HTML?
4. How would you write the HTML for a <div> with a class of “container”?
5. Where do you write your CSS?

**Group Discussion Questions**

1. What is our template folder for? How do we start a new project or exercise?
2. What role does HTML play in website development?
3. What role does CSS play in website development?
4. What are the three ways to add CSS to your page? Which is the best way? Why?
5. Why do we keep HTML, CSS, Javascript, and images in separate files?
6. When should you comment your code? What is the shortcut to comment code?
7. What’s a tag?
8. What’s a CSS property? What’s a value of a CSS property?
9. What CSS properties can you use to change the size of an element?
10. What’s the difference between margin and padding?
11. What’s the difference between an ID and a class?
12. What does the following CSS selector select: div.box ?
13. How do you open the google developer tools? Why do we use them?
14. How would you correct this tag:   
    <link rel=”stylesheet href=”main.css”>?
15. How would you correct this tag: <image href=”img/smiley.png>?
16. How would you correct this tag: <div>class=”box”</div>?
17. How would you correct these tags:   
    <div><button type=”button”>Click me</div></button>?
18. What will a user see on your webpage if you use the following code:   
    <a href="https://www.google.com"></a>?

**Exercises**

***Important: Make sure to add comments to your code.***

1. Create a copy of your template folder and rename it to 'week1exercise'.
2. Drag this new folder into your 'week1' folder inside your 'codify' folder.
3. In HTML: Create a ul element with a class of nav.
4. In CSS: Add three CSS properties and values to the ul (background-color, margin, & padding).  
   REMEMBER TO GIVE THEM VALUES!
5. In HTML: Create three li elements inside the ul.  
   BE SURE TO INDENT YOUR NESTED ELEMENTS!
6. In HTML: Create an anchor element inside each li element to connect each one to one of your favorite websites.  
   BE SURE TO LABEL EACH ANCHOR ELEMENT WITH THE NAME OF THE WEBSITE!
7. Load your page and take note of what your ul at the top looks like. In the next step, we want to change it from a vertical list to a horizontal list (with all li elements on the same line).
8. In CSS: Add three CSS properties and values to all of the li elements (background-color, display, & padding).   
   *HINT: It's the value of the display property which will change the layout of our list. If you're not sure what the possible values for display are, try Googling "w3schools display" and searching for them in W3Schools.*
9. Reload your page. Is the list horizontal? If not, try a different value for your display property.
10. In HTML: Create two div elements below your navigation. Give each div a class of "box".
11. In CSS: Select your elements with the class of box, and add two CSS properties (display: inline-block & width: 40%.
12. In HTML: Inside one of the divs, create one large heading element with the content, "HTML". In the other div, create one large heading element with the content, "CSS".
13. In HTML: Create a smaller heading element below your large heading element inside each div. Give these smaller headings the content of what HTML and CSS stand for, respectively.
14. In HTML: Below your smaller heading elements inside each div, create an img element. Search Google images for images which look like the following:

 and 

1. Save each image into your images folder inside your week1exercise folder, and insert them into your new img elements when you reload your page (only one in each!).
2. In CSS: select your img elements and give them a width of 60% and add three properties of the box model (if you are unsure of what the box model is, Google "w3schools box model").
3. In HTML: Add a second class to each of your divs, "html" and "css", respectively (if you're unsure how to add a second class or what multiple classes look like, Google "w3schools html classes").
4. In CSS: Select your “html” class and give it a background-color with a value of “#2BA8E0”.
5. In CSS: Select your “css” class and give it a background-color with a value of “#EE6526”.
6. In CSS: Select your body element and give it the property of “text-align” with the value of “center” and refresh your page.

***Once you’ve completed these exercises, try some of the following:***

1. Create a new div in HTML and try giving it a background-color, height, width, and a border-radius property in CSS. What does border-radius do? Can you use border-radius to make your div a perfect circle?
2. Create a new div and use CSS to give it a background-color. Now load your page. Can you see your div? Why not? Now try giving it a height OR putting some text inside of it. Can you see it now?

[Download Completed Week 1 Exercises](http://codifyacademy.com/wk1/week1exercises.zip)

**Debugging Exercises**

***Download the following zipped project files and debug any errors you find.  
  
Unzip each file and drag the folder inside onto your desktop.  
  
Drag that folder into your text editor.  
  
Be sure to look at both the index.html and main.css files contined inside.  
  
Be sure to load the web page in your browser to see what is and isn't working!***

* [Week 1 Debug 0](http://codifyacademy.com/wk1/debug/debugWeek1-0.zip)
* [Week 1 Debug 1](http://codifyacademy.com/wk1/debug/debugWeek1-1.zip)
* [Week 1 Debug 2](http://codifyacademy.com/wk1/debug/debugWeek1-2.zip)
* [Week 1 Debug 3](http://codifyacademy.com/wk1/debug/debugWeek1-3.zip)
* [Week 1 Debug 4](http://codifyacademy.com/wk1/debug/debugWeek1-4.zip)
* [Week 1 Debug 5](http://codifyacademy.com/wk1/debug/debugWeek1-5.zip)
* [Week 1 Debug 6](http://codifyacademy.com/wk1/debug/debugWeek1-6.zip)
* [Week 1 Debug 7](http://codifyacademy.com/wk1/debug/debugWeek1-7.zip)

**Project**

***Important: Make sure to add comments to your code.***

Time to replicate a website: Google! In Litmos Week 1 you will find a link to Codify's [Google Homepage](http://codifyacademy.com/google" \t "_blank).

**Steps of completing a website replication**

1. Inspect and recreate HTML while adding comments to help you understand what tags and attributes are doing.
2. Inspect and recreate CSS while adding comments to help explain what CSS properties or selectors are doing.
3. Validate HTML and CSS code to make sure there are no errors.
4. Send DM (Direct Message) to your mentor with the completed project as a zip.
5. Check off in Litmos in Week 1 project complete.

**Jobs Program**

This week, if you don't already have a current and updated LinkedIn profile, create one. Head to [Linkedin.com](https://www.linkedin.com/" \t "_blank), sign up, and fill in all of the data on your profile, then send the link to your profile to your mentor. Be sure to complete the following:

* A professional profile picture
* A blurb about yourself
* Your updated work history
* Your educational history
* Your skills, professional or otherwise
* It would also be a good idea to fill out your interests and accomplishments

Once your profile is created and updated, paste the link to your new LinkedIn profile into your class' Slack channel.  
  
Then, while signed into your LinkedIn profile, connect to EVERY ONE OF YOUR CLASSMATES, and your mentor.  
  
Once connected (the person your connecting to has to accept), look at your classmates' profiles, find their skills sections, and endorse each of their skills by clicking the "+" icon next to each skill. Be sure to do this for everybody in your class.  
  
Feel free to connect with additional Codify students, mentors, or grads, as well.