CS 268, Spring 2025
Assignment 1

Home Assignment – 1
Due Date: March 3rd, 2025, 11:59 pm
Total Points: 20 Points

Purpose: To provide an initial introduction to the concepts related to HTML and use them to build web pages.

Knowledge: This assignment would be used to evaluate the knowledge and understanding you have gained from our discussion on Introduction to HTML and CSS, which was covered in Weeks 1, 2, 3 and 4. This assignment is an opportunity to apply several HTML and CSS tags that were learnt in class.

Skill: Upon successful completion you will be able to:

- Understand how HTML works and create webpages using HTML tags.
- Add styling to webpages

Task: Please refer to the slides and lecture notes to answer the questions. Most of the similar HTML tags were discussed in class.

Criteria: Refer to the rubric to see how many points have been assigned for each question.

(For questions 1 – 4, upload your HTML files only.)

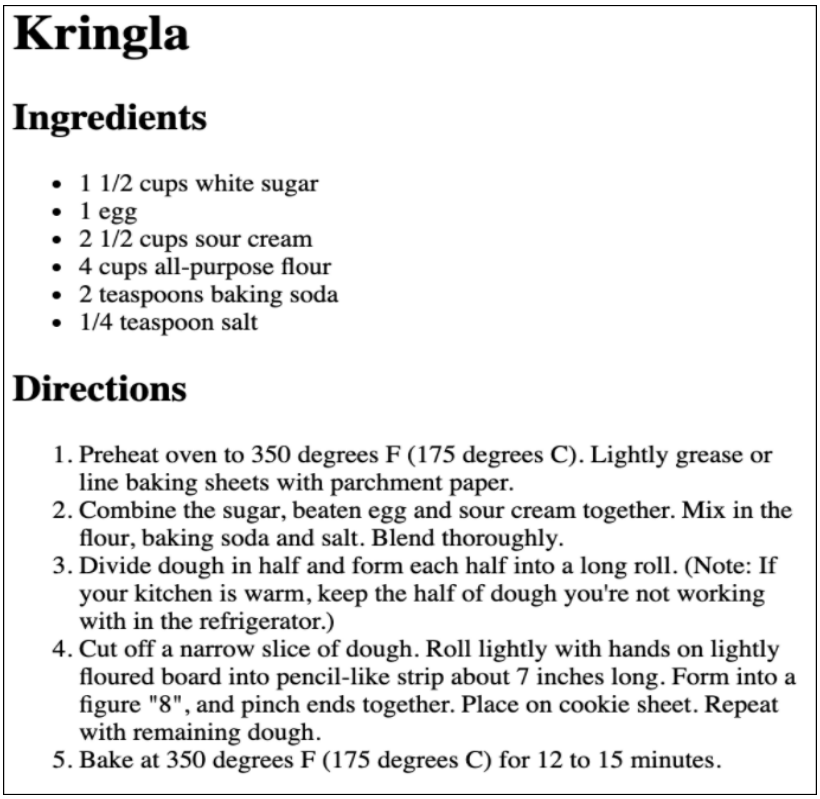
4+4+6+6

1. Create an HTML page using only 50% width of the screen. Pay close attention to the difference in text styles as well as inline images while compiling this webpage.

   Use the raw text given below:

Kringla
Ingredients
1 1/2 cups white sugar
1 egg
2 1/2 cups sour cream
4 cups all-purpose flour
2 teaspoons baking soda
1/4 teaspoon salt
Directions
Preheat oven to 350 degrees F (175 degrees C). Lightly grease or line baking sheets with parchment paper.
Combine the sugar, beaten egg and sour cream together. Mix in the flour, baking soda and salt. Blend thoroughly.
Divide dough in half and form each half into a long roll. (Note: If your kitchen is warm, keep the half of dough you're not working with in the refrigerator.)
Cut off a narrow slice of dough. Roll lightly with hands on lightly floured board into pencil-like strip about 7 inches long. Form into a figure "8", and pinch ends together. Place on cookie sheet. Repeat with remaining dough.
Bake at 350 degrees F (175 degrees C) for 12 to 15 minutes.

Your output should look like the image below (the border is not included):



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4. Cut off a narrow slice of dough. Roll lightly with hands on lightly floured board into pencil-like strip about 7 inches long. Form into a figure "8", and pinch ends together. Place on cookie sheet. Repeat with remaining dough.
5. Bake at 350 degrees F (175 degrees C) for 12 to 15 minutes.

2. In the same HTML page as question 1, use the remaining 50% width on the right to complete this question. Pay close attention to the difference in text styles as well as inline images while compiling this webpage

   Use the raw text given below:

My physics teacher said that the best way to learn physics is to double-major in computer science. Then she gave us the following homework problem:
Write a Javascript class that models a projectile. Provide a constructor that accepts the projectile's initial velocities on both the x- and y-axes. Provide also a method for getting the projectile's position at time t.
I will not take a programming course until my 5th grade year, but I watched all of last summer and managed to piece together the following solution:

```
class Projectile {
constructor(velocityX, velocityY) {
this.velocityX = velocityX;
this.velocityY = velocityY;
}
getPosition(t) {
return [this.velocityX * t, -4.9 * t * t + this.velocityY * t];
}
}
```

Perhaps by the time I am in college, will be handing out degrees.

Your output should look like the image below (the border is not included):

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Note: For question 1 and 2, the final page should be looked like the image below:

Kringla

Ingredients

- 1 1/2 cups white sugar
- 1 egg
- 2 1/2 cups sour cream
- 4 cups all-purpose flour
- 2 teaspoons baking soda
- 1/4 teaspoon salt

Directions

1. Preheat oven to 350 degrees F (175 degrees C). Lightly grease or line baking sheets with parchment paper.
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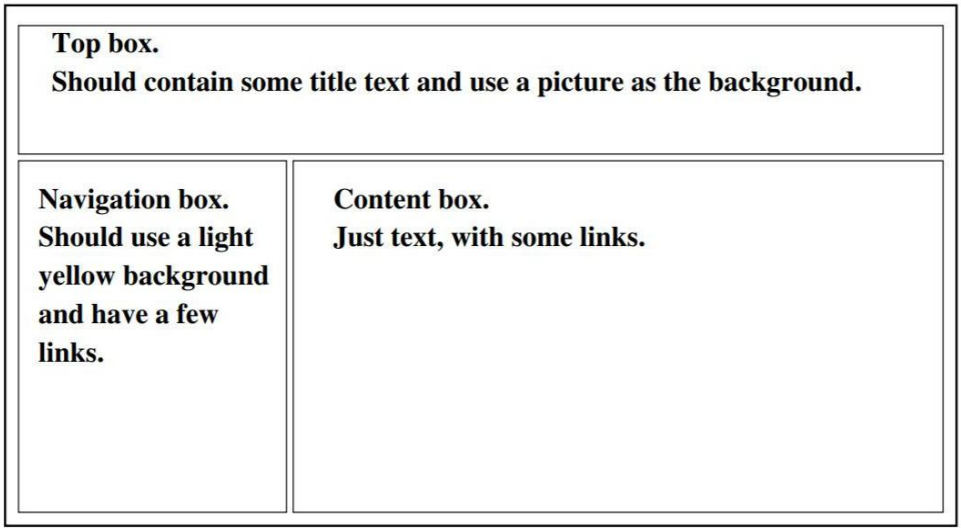
3. Design a presentation style for a Web page using an external CSS file. Follow instructions as suggested in the figure below for completion:

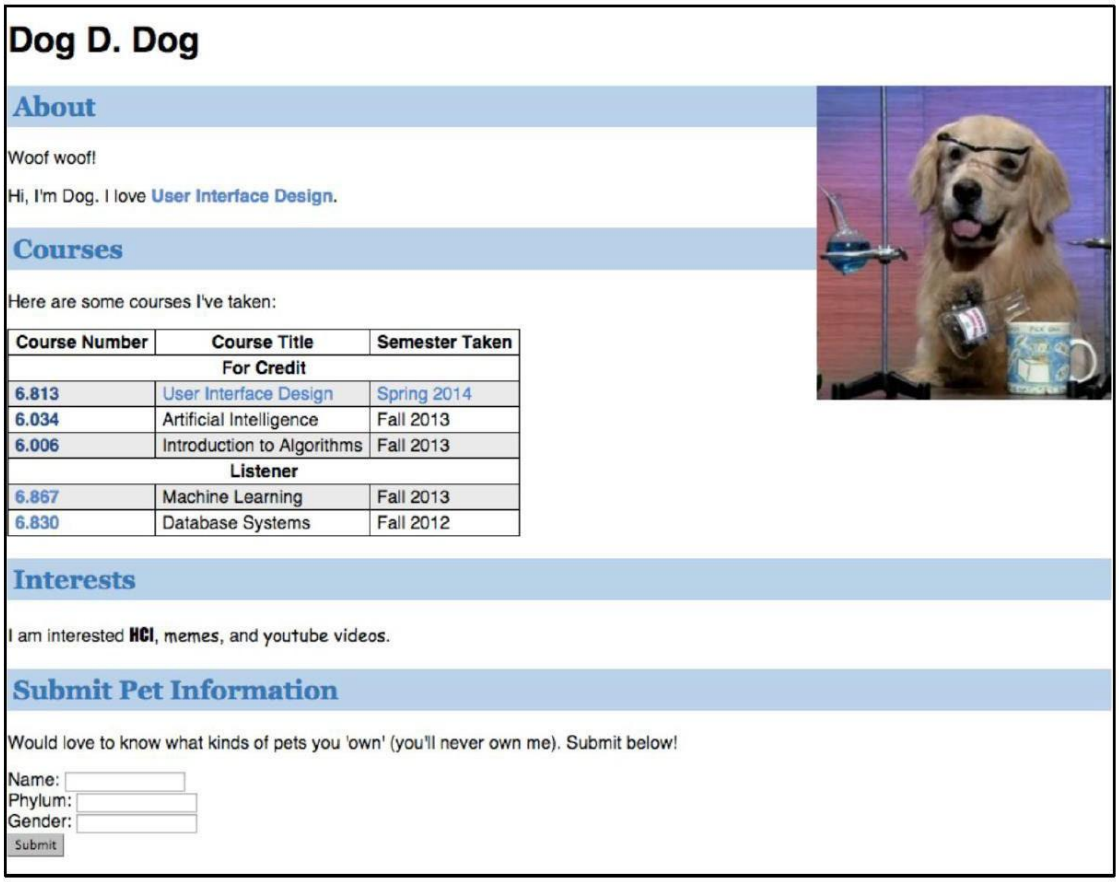
   a. Use the presentation style with three boxes (Top, Navigation, and Content). Use tags to implement the boxes. Add some content of your choice.
   b. You are free to design and style the page any way you like as long as it follows the scheme shown below. **Do not use any bootstrap, flexboxes, grids, or other libraries for these questions.**



   c. Modify the Content box by adding the following table:

Student		Exam				2nd Exam				Final Grade	
		Q1	Q2	Q3	Grade	Q1	Q2	Q3	Grade		
Code	Name	8	7	5		6	7	7		s/ A.	c/ A.
80549061	John	70%	100%	100%	17.6					17.6	18
80549062	Mary	10%	50%	50%	6.8	100%	100%	50%	16.5	16.5	17
80549063	Claire					50%	50%	50%	10.0	10.0	10

4. Using HTML, and external CSS write a webpage that looks as shown below but with your details. Ensure that you are using almost the entire viewport height and width. Feel free to use any image of your choice. Validate the HTML code using the online W3C validator. Upload a screenshot of the validation.
   Link: https://validator.w3.org/#validate_by_upload



To turn in your assignment

If you did it right, you should be having the following:

1. 1 HTML file for Question 1+2. The name of this file is q1_2.html.
2. 1 HTML + 1 CSS for Question 3. The names of these files are q3.html and q3.css.
3. 1 HTML + 1 CSS for Question 4. The names of these files are q4.html and q4.css.
4. W3C validation screenshot for Question 4
5. A folder with images used in the program.
6. Take all these folders + files and zip them.
7. DO NOT use absolute file paths. Use relative paths. Students using absolute paths will receive a Zero.
8. Assignment not following the correct instructions will be graded as Zero.