

IT 202 Winter 2021  
Midterm Exam Instructions  
Coding Problem Portion (20 points)

The midterm exam should only involve your individual effort. Under no circumstances should you collaborate with others, give help, or receive help. While you may use course notes and examples, you will find the materials in this folder most helpful for completing the coding portion of the exam.

1. Make sure that you can view the midterm.html file in a Chrome browser and run the video. Note that the JavaScript code is in a separate file.
2. Using the provided video as a guide on the level of detail, video record yourself referring to the code in midterm.js and explaining the following:
  - a. The JavaScript statements that run when the page is loaded. (4points)
  - b. The JavaScript statement that run when the Play button is pressed. (3 points)
  - c. The JavaScript statements that run when a color is selected from the menu and the Set Color button is pressed. (3 points)
3. Modify midterm.html and midterm.js so that it has the following:
  - a. A Pause button that pauses the video whenever it is pushed. (3 points, includes html and JS code)
  - b. Modify the play function so that it doesn't always start at the beginning. That is, it should resume where you paused. (1 point)
  - c. Add another menu and a button with the label **Explain**. The menu should display 3 options: Statement 1, Statement 2 and Statement 3. When the Select Segment button is pushed, the video should start playing at the beginning of the selected segment. For example, if the user selects 'Statement 2' and then presses the Explain button, the video should start playing at the beginning of the explanation for Statement 2 (i.e., at the 27 second mark). (6 points, includes html and JS code)
4. Record a video explaining your modifications (required for full credit for #3).
5. Submit the zipped folder of your modifications to the D2L submission folder 'Midterm Coding Problem'. Provide a link to the recording of your explanations (Panopto in D2L allows you to do this). Or, if your files are small enough, include them in the zipped folder.

Advice

1. Study the video first. It might help you!
2. Open the Chrome Console window open and keep it open. It may help you find typos and other errors. You can also try out code snippets to see how they work.
3. Do the best you can. Even if your page doesn't work completely, you will receive partial credit for your html code, JavaScript code and your explanations.