**CIS 172 – Winter 2020**

**Final Examination**

**Testing Rules:**

* This examination is open book, open notes, and open Internet. Please ensure though that any code you submit is your own, and you understand it entirely. Do not download or copy code from others. This includes other sites, however, you can re-use and update your own code.
* I will stop accepting submissions promptly at 7:15pm on May 12th. No exceptions.
* Any instances of cheating (or any violation of the above rules) will result in a zero on this exam and could result in removal from the course and/or disciplinary action on behalf of the school.
* This final has three sections that combine to a total of 100 points.
* There is a debug section, and a new feature section.
* If I cannot find your final in git, you will not receive a grade.

**Things to do:**

* Read the instructions.
* Follow the instructions.
* Create a folder called *final* in your project.
* Feel free to reach out via slack or teams to verify that your code has been pushed/uploaded properly!

**Things not to do:**

* Do not worry about security for this exam only.
* Do not over-complicate your response (I want to see a simple implementation of the question)

**Part 1: Debug (40 points)**

Attached you will find an html and js page for a site NotTesla. NotTesla is an upcoming horse-carriage company. Our site is being created for the first time now, and it needs a lot of work.

1. There is an error in the developer console that must be fixed. The error is also pasted below.
   1. index.js:36 Uncaught TypeError: Failed to execute 'addEventListener' on 'EventTarget': The callback provided as parameter 2 is not an object. at init (index.js:36)
2. Next, make the buy button work. It should fire the onButtonClick method when it is clicked, but it does not. This method should send a log to the dev console when it is working for now.

**Part 2: New Feature (50 points)**

Add the following pieces of new functionality to the site.

1. Wrap the whole inside of the updateColor method in a try catch. In the catch, just console.error the error object.
2. Use a switch statement to check the color in the pagejs property called carcolor inside the updateColor method. If the color is not White, Red, or Blue then throw an error.
3. Inside the onButtonClick method, below the console.log, add an AJAX POST request to the following URL. Be sure to pass the pagejs.metric object in the request.
   1. <https://nottesla.com/api/v2/page/metrics>
4. Inside the same onButtonClick method, after the ajax call, add a line to save the metrics object to localStorage. You name the key metrics.

**Part 3: Comments && Readability (10 points)**

This section is put aside for the specific purpose of making sure your files are properly documented and readable. If your files are clean and readable, and if you include a comment at the top of your files with your name and any other relevant info; then this should be an easy 10 points.