Introduction to ITWS 

1. Technology (coding): (40 points, 30 minutes)
   1. Create a JSON file containing at least 5 greetings (eg ‘Hello Moto!’) – make sure your file is properly formatted. (10 points)
   2. Using JavaScript and/or jQuery, write the code necessary to display a random greeting which you will read from your JSON file and display somewhere in your header. (20 points)
   3. Bind an event to the greeting, so that when the user clicks on it, they are presented with a new greeting (10 points)

in quiz2 folder

1. Technology (description) (20 points, 15 minutes): Web Development
   1. What is a CDN and how do we use them in this class? Be Specific and give an example used in class (3 points)

A content delivery network or CDN for short is a network or server that hosts content that you can access from a website. We use CDNs in class to access different fonts for our websites.

For example: cdnfonts.com

* 1. Explain, in detail, what is happening in the following code samples (10 points) {i:3,ii:3,iii:3,iv:3}
     1. <!DOCTYPE html>

At the top of every html to declare when the HTML starts. </html>

is put on the bottom in order to show when the HTML code has ended.

* + 1. getElementsByTagName(p);

Goes through a document and grabs the element from the tag named p. The function searches each node in the document until it finds the node that matches the given variable and then returns the elements of said node.

* + 1. <div id=”myInfo” class=”infoData personal”>

<button type=”button” onclick=”popMsg();”>

<a href=”#” class=”linktype”>Go Somewhere</a>

</button>

</div>

* + 1. jQuery(“#myInfo”).css({“background-color”:”pink”,”font-size” : “115%”});

Calling a selector called “myInfo” and displaying it with css that turns the returned html both pink and 115% the original font size.

* 1. Let’s say that I am trying to run my JavaScript code above, and the file is not loading. How would I test out my code and try and identify the error. (Be specific and explain your debugging process) (5 points)

First, go through and look for typos in your code, javascript is a caps sensitive language so check for misplaced upper and lowercase letters.

1. Web Science (20 points, 15 min) (Explain in detail)
   1. According to the Lecture by Dr. Erickson, what is Web Science? Why is it important?

The Interdisciplinary Study of Micro and Macro interactions on the internet. Focusing on the internet’s characteristics and interactions that happen within it.

Web Science asks questions about the growth and global connection of the internet and what would cause disconnect and/or fracture it.

* 1. What unintended consequences result from sharing our data? Be descriptive and include an example from your own personal experience or our in-class/Discord discussions.

Unintended Consequences of sharing data to websites can include, your data being monitored by outside party’s that partner with the website. Your data can be outright sold to others from the website in order to make money. Biases can also be formed based on what you shared and can be considered harmful to others.

Examples of sold or monitored data can be seen in TikTok’s recent congressional hearing and the fear of Chinese government monitoring. Some people believe that TikTok can be considered “spyware,” or an application that enables a harmful party to monitor user information.

* 1. How could Web Science concepts (from your answer to a) be used to help identify and perhaps mitigate these issues (which you described in b)?

If the United States decides to go through with the banning of TikTok, it can cause a divide within the internet for some users who were able to communicate via the app. Focusing on application interaction and the data being given to ByteDance can help politicians and users of the internet understand whether or not they believe they should give their data by using TikTok, there is no reason to ban it. Some people believe that it endangers children when you are required to have be 13 or older, in order to fix this problem, ByteDance can just increase checks to make sure you are of age to have access.

1. Cybersecurity/HCI (20 points, 10 minutes) (Explain in detail)
   1. According to the lecture, what is the weakest link in web security? Why?

Humans are the weakest link because of having lazy passwords, being gullible and poor organization skills.

* 1. What is the CIA Triad?

Confidentiality, Integrity and Availability

* 1. What are SSH keys and how do they work? How have we used them in this class beyond this cybersecurity lecture?

Access credentials needed to access certain sites, git files and servers. They are a form of authentication used by UNIX-like operating systems. We use them in class to access our Microsoft Azure instances and to pull items from github.