**Questions**

**HTML CSS:**

1. Give an explanation on these tags and what they do?
   1. <div>
   2. <ul>
   3. <td>
   4. <thead>
   5. <section>
   6. <img>
   7. <form>
   8. <label>
   9. <input>
   10. <option>
2. Describe the following common CSS units of length:
   1. cm
   2. em
   3. in
   4. mm
   5. px
   6. vh
   7. vw
   8. rem
   9. %

**JavaScript, AJAX, JQuery**

1. What is the use of the ‘this’ keyword?
2. What is a function?
3. Create a function that takes height in cm and weight in kg as parameters, it should return the BMI using the two inputs present.

(weight in kg)

(height in meters) \* (height in meters)

<https://en.wikipedia.org/wiki/Body_mass_index>

**6)**

Accessing objects in JS

1. **var** car **=** {
2. brands: {
3. BMW: {
4. 6-series: {
5. sold: 1805
6. }
7. },
8. Tesla: {
9. Model-S: {
10. sold: 200
11. },
12. "Model-A": {
13. sold: 14
14. },
15. }
16. }
17. }

Access the number of 6-series cars sold

Access the number of Model-A cars sold

**7)**

**var** restaurants **=** [

{name: "Ollies", group: "Castelo Concepts"},

{name: "Wagyu", group: "Castelo Concepts"},

{name: "Zaks", group: "Castelo Concepts"},

{name: "Black Salt", group: "Black Sheep"},

{name: "Salt and Barrel", group: "Black Sheep"}

]

Return an array of just the restaurants in the group Castelo Concepts

Create an array all the names of the restaurantsI

**8)**

Using Getters and Setters create a class called Pet it should take a name and an age

Three methods should be associated with the class, Age() = will return the age of the pet

Age(age) 🡪 sets the age of the animal (resets to the value given)

Info() returns the most updated age and name of the pet in a string.

Initialise a new pet ensure these are the outputs.

Outputs: pet.Age // “I’m 4 year’s old”

pet.Age = 14;

pet.Age // “I’m 14 year’s old”

pet.Info // “My name is {given name}, I am 14 years old”

**9)**

Construct a button in an html file, when pressed, the button calls this api: <https://randomuser.me/api/>, every time a user presses the button you should add the random user’s name to the html page using JQuery.

**10)**

Construct a button in an html file, when pressed, the button calls this api: <https://randomuser.me/api/>, get information for two users when you have this information fire off a second request to <https://api.sunrise-sunset.org/> api, you will need to pass the users latitude and longitude into the api call, once you have the information using JQuery add the users timezone to the html page as well as the Sunrise and Sunset time.