FINAL ASSESSMENT

HTML, CSS, JAVASCRIPT, JQUERY, REACT, NODE

HTML / CSS

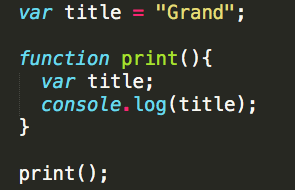
1. Create a CSS selector that selects all paragraph tags nested in elements with a class of “subscription-info” that is nested in an element with a class of ‘subscription’. *[1pt]*
2. Taking the box model into account: If an element has a width of 200 pixels, padding of 5 pixels, a 1px border, and margin of 10 pixels. What is the total horizontal space taken by the element? *[1pt]*
3. Create a CSS selector for an anchor element that will only apply its style when the user’s mouse passes over element. *[1pt]*
4. Explain the differences between block, inline, and inline-block. *[1pt]*

JAVASCRIPT

1. Declare and initialize the variable **limit** to the number 25. Construct an if statement to check if the variable limit is above or equal to 21. If true, the script should log the message, ‘limit is met or exceeded’. If false, the script should log the message, ‘limit is not met’. *[1pt]*
2. Create a for loop that logs the integers from 1 to 50 to the console (including 50). If the integer is evenly divisible by 10, log “Boom” to the console. For all other integers, just log the number itself. *[1pt]*
3. Create a while loop that will prompt the user to enter their favorite food until the user types “Tacos”. *[1pt]*
4. Declare a function called findSum that accepts two parameters. Inside the body of the function, return the value of both parameters added together. Then call the function with the arguments: 3 and 7. *[1pt]*
5. Declare a variable called catalog, initialize it as an array of objects. Each object should have properties of productName, description and unitPrice. Add an object for each of these catalog items: *[1pt]*

|  |  |  |
| --- | --- | --- |
| Product Name | Description | Price per unit |
| “Lamp” | “Standing lamp.” | 8.73 |
| “Chair” | “What you sit in.” | 66.35 |
| “Paperweight” | “For holding things down.” | 3.46 |

1. Using the catalog array created above, use a forEach to log each item’s price per unit to the console. *[1pt]*
2. *C*onsider the following code, what will be logged to the console? In a few sentences, explain why. *[1pt]*



JQUERY

1. Using jQuery, select an element with an id of submit-button. Add an event handler using the on method. When the element is clicked, it should trigger an alert that says “Clicked!”. *[1pt]*
2. Using jQuery, make a GET request to the url “http://example.com/json”. Log the data from the request to the console. *[1pt]*

NODE.JS

1. Declare a variable http to require the http module. *[1pt]*
2. In a file called animal-inventory.js is the following code…  
    var animals = [ "cow", "chicken", "sheep", "goat", "duck" ];  
    function printAnimals() {  
    animals.forEach(function(animal) {  
    console.log(‘We have a ‘ + animal);

});  
 }  
 module.exports.animals = animals;  
 module.exports.printAnimals = printAnimals;  
  
Write the code required to import the content of animal-inventory.js and call the printAnimals function. *[2pts total]*

1. What command is required to run a script file through NodeJS? *[1pt]*

REACT

1. The following is a component that keeps a count starting at 0. Every time the button is clicked, the count goes up by one. Provide the missing bits for each of the six blanks (a through f) to complete the component. This component does not use Redux. Each blank is worth ½ point. Note: (d) should display the current counter number. (e) should call the handleClick method when the button is clicked.

|  |
| --- |
| class Counter extends Component {  \_\_(a)\_\_\_\_(props) {  super(props);  this.\_\_(b)\_\_\_\_ = {  counter: 0  };  }    \_\_(c)\_\_\_\_() {  return (  <div className="Counter">  <span className="count">\_\_(d)\_\_\_\_</span>  <button type="button" \_\_(e)\_\_\_\_>Add One</button>  </div>  );  }    handleClick() {  this.\_\_(f)\_\_\_\_\_\_(prev => ({  counter: prev.counter + 1  });  }  } |