CPT 238 Assignment 2

Directions

Using the following guidelines, create a web page. Ensure to use the basic starting template, master.html.

1. Save the web page as assignment2.html
2. The web page <title> should be Assignment 2.
3. Create an assignment2.css page.
4. Create the following styles in the assignment2.css page:
   a. A class named "Christmas" – Arial, bold, 28 point, red color, green background
   b. A class named "Easter" – Times, italic, 28 point, pink color, purple background
   c. A body style that will cause the entire page background to be gray color.
5. On the assignment2.html page:
   a. Create two <div> elements in the <body> section:
      i. The first <div> should have an id of "letters".
      ii. The second <div> should have an id of "calculation".
      iii. Inside the first <div> element, place <script> tags that will contain code that will:
         1. Using a ***while*** loop, print out the contents of the "alphabet" array. Ensure to put a space between the letters. (You will create this array using code on the assignment2.js page.)
      iv. Place a little space between the <div> tags.
      v. Inside the second <div> element, place <script> tags that will contain code that will:
         1. Prompt the user for the height and width of a rectangle and assign these values to variables.
         2. Print out the area of the rectangle as shown in Figure 1. Ensure to use the function that you will create on the assignment2.js page.
6. Create an assignment2.js page.
7. In the assignment2.js code, write the following JavaScript code:
   a. Create a function called "area" that will accept two inputs (height and width) and return the area of a rectangle. See hint.
   b. Create an array named "alphabet".
   c. Populate the alphabet array using a ***for*** loop with the capital letters A – Z. (Array will have 26 members.). See hint.
   d. Write jQuery code that will:
      i. Not execute until all page elements have loaded.
      ii. Add the "Christmas" class to the <div> element with an id of "letters".
      iii. Add the "Easter" class to the <div> element with an id of "calculation".
8. Test your web page and ensure that it looks like Figure 1. This assumes the user enter the values of 5 and 6 for the height and width of the rectangle.
9. Zip your files and submit into the Assignment 2 Drop Box.

Hints

The formula for the area of a rectangle is: area = height * width

To populate the alphabet array, use a **fo**r loop along with the String.fromCharCode() method. It will have 26 members when you complete it.

http://www.w3schools.com/jsref/jsref_fromcharcode.asp

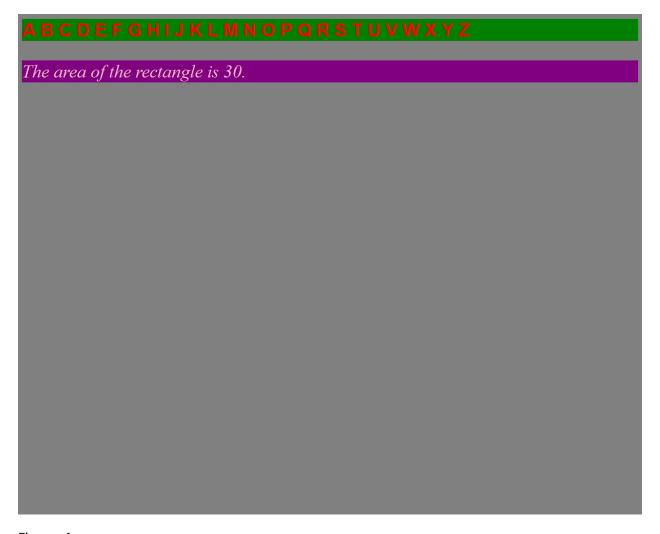https://ariya.io/2013/07/sequences-using-javascript-array

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

The area of the rectangle is 30.

Figure 1