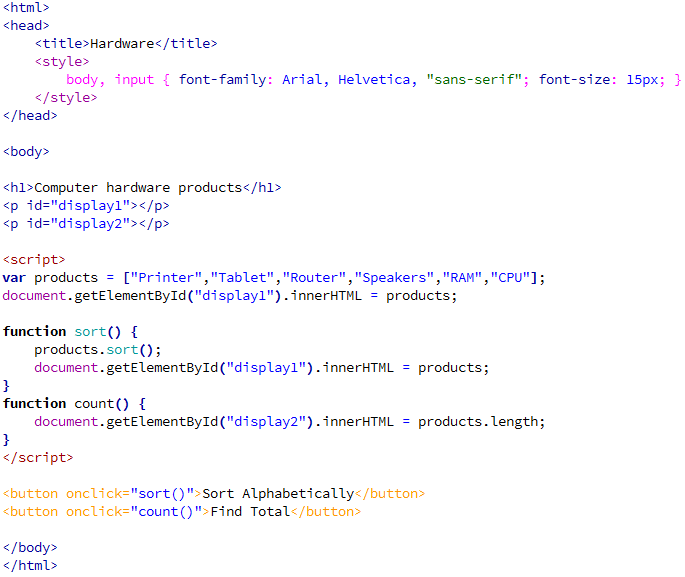
# Place The Dice

Edit the Arrays Dice Roll HTML file to enable the user to enter a number between 1 and 6 into a text box, and click a button to make the dice image with the corresponding number display on the screen. Validate the form by displaying a red error message when the user doesn’t enter a number between 1 and 6.

# 

# Homework 5 JavaScript

1. Below is some JavaScript code embedded into a web page:



1. Describe the purpose of the function ‘count’. [1]

To change the value of display2 to the value of the length of products array

1. Explain the purpose of the ‘sort’ function and state the output of this function. [2]

To set the value of products variable to the array products

Printer, Tablet, Router, Speakers, RAM, CPU

1. Write some JavaScript code to update the ‘count’ function to display an alert message rather than updating the HTML element with the relevant information. [3]

var productLength = products.length;

alert(“productLength”)

1. Below is a HTML element:

<p id="bear"></p>

1. Write the correct JavaScript syntax to change the content of the element to display “Grizzly”. [1]

<p id=”bear”>Grizzly</p>

1. Write a JavaScript function called ‘Update\_Image’ to update the background image in the HTML element ‘bear’ to a file called ‘Grizzly.jpg’.

Assume the image file is in the same directory as the web page. [3]

<script>

function Update\_Image() {

document.getElementById(“bear”).innerHTML=”<img src=’Grizzly.jpg’”;

}

1. The web page has JavaScript code to give the user an alert box to display “Check for bears!”. Why would a web developer choose to display this element to the user of the web page within an alert box rather than within the page content? [2]

Writing it into page doesn’t pause the execution of the code, so for example when you tell the user to check for bears, you need to make sure the user understands and knows to check for bears before they proceed, wheres putting it on page content doesn’t pause the code.

1. JavaScript is interpreted by the Browser. Explain why JavaScript is usually   
   interpreted rather than being compiled. [3]

If you compiled java script, and say, multiple kinds of operating systems are trying to open the page and see it, if you wanted to use a compiler, you would have to compile the page’s code into the object code for each and every operating system because different operating systems don’t use the same language and wont understand another’s language. If you use interpreter, you can depending on the operating system of the device that is reading the page, translate it accordingly so you don’t have to pre translate everything for a bunch of operating systems. It makes it more efficient.

Total Marks 15