# CIST 1520

# Scripting Technologies - JavaScript

**LAB #5 – *40 Points***

**Instructions**: A website was designed to show the Amendments and a definition for each. After the site was launched, the developer realized a table of contents was not included. You have been given the task of creating the Table of Contents(TOC) for the newly developed site.

Steps:

* Download and unzip the Lab 5 file.
* In index.html file:
  + Enter your name and today’s date where indicated in the comment section in the document head.
  + Add a script element to access script.js file
* In the script.js file:
  + Declare the following variables:
    - The sourceDoc variable referencing the element with the id “source\_doc”.
    - The toc variable referencing the element with the id “toc”.
    - The headingCount variable with an initial value of 1.
    - A constant named heading with a value of “H2”.
  + Create a for loop using the code structure described above going from the first child element of the sourceDoc variable through the last child where the next sibling element would be null.
  + Within the for loop insert an if statement that tests whether the value of n.nodeName is equal to the value of the heading constant.
  + Within the if statement insert the following commands to be run if the condition is true:
    - Create an element node named anchor for the a element.
    - Set the value of the name attribute of anchor to the text string: "doclink" + headingCount.
    - Use the insertBefore() method to insert anchor before first child of the n node.
    - Create an element node named listItem for the li element and an element node named link for the a element. Use the appendChild() method to append link to listItem.
    - Set the value of the textContent property of link to n.textContent.
    - Set the value of the href property of listItem to the text string: "#doclink" + headingCount;
    - Use the appenChild() method to append listItem to the toc object
    - Increase the value of the headingCount variable by 1.
  + Execute the program and take screen capture of output.
  + Submit screen capture, index.html, and script.js file via blackboard

**Sample Result**

