# Web Development Exercise: JavaScript Basics Prepared by Jack G. Zheng for IT 5302

This exercise will let your practice JavaScript basics. The relevant answers can be found in the examples provided.

## Instructions

1. Dynamic content
   1. Define a variable for your name, and display “Welcome, ” plus your name on the screen.
   2. Define a variable for an HTML heading element (H1 to H5), and then display the welcome text using this heading element.
   3. Define a variable for a font color or font size, and use them in the in-line style for the welcome text.
2. Calculation
   1. Define two number variables, and calculate their sum, difference, and product.
   2. Define four number variables x1, x2, x3, and x4. Calculate their average.
3. Selection
   1. Define a number variable and give it a value, use if statement to check if it is positive or negative.
   2. Define two string variables and give them some value, use if statement to check if they are the same text.
4. Loop
   1. Define a number variable and give it a positive value (like 5), display all numbers from 1 to this number in an HTML list, using for loop.
   2. Define a number variable and give it a positive value (like 5), use a while loop to sum all numbers from 1 to this number.
   3. Define two number variables (x, y) and give them some positive value, display a HTML table (with borders) with x rows and y columns.
5. Button and textbox
   1. Design a textbox and a button. Enter some text in the textbox, and click the button; then the text will be displayed with the red color.