# CIST 1520

# Scripting Technologies - JavaScript

**LAB #4 – *40 Points***

**Instructions**: A moving company has an application that provides a general estimate of costs.The company charges 50 cents per pound of items moved and 75 cents per mile plus an optional $500 fee for setting and installing furniture and appliances. Currently, the program is not working so you have been tasked to debug the code and add extra code to account for user error.

Steps:

* Download and unzip the Lab 4 file.
* In index.html file:
  + In a text editor, open index.htm. Enter your name and today’s date where indicated in the comment section in the document head.
  + Add a script element to load the script.js file.
* In the script.js file:
  + There are two logic errors in setting up the global constants. Locate and fix those errors.
  + Go to the calcTotal() function. To guard against users entering a zero or negative value for the estimated weight, replace the statement totalCost += wgtBox.value \* COST\_PER\_LB; with a try catch statement that does the following:
    - Tests whether wgtBox.value is not greater than 0 by using the expression !(wgtBox.value > 0). If that expression is true, throw an exception with the error message “!! Enter a positive weight”
    - If no exception is thrown then run the command totalCost += wgtBox.value \* COST\_PER\_LB;.
    - If an exception is caught, set the value of msgBox.innerHTML to the error message you defined for the thrown exception.
  + Repeat steps above for calcTotal() for the estimated distance cost using distBox.value. Throw the error message “!! Enter a positive mileage” for a caught exception.
  + Execute the program three times
    - Enter 0 for weight and 1000 for mileage to trigger weight error message. Take screen capture of output.
    - Enter 2000 for weight and 0 for mileage to trigger mileage error. Take screen capture of output.
    - Enter 1500 for weight and 500 for mileage and select the Setup and Installation box. Take screen capture of output.
* Submit three screen captures, index.html and script.js files via blackboard

Sample result:





