Lab 1. Introduction to TensorFlow

In this lab, we will do some basic TensorFlow calculations.

# Part 1.

1. Create a simple graph that calculates the expression
2. Once the graph has been created, create a TensorFlow session and evaluate the operation that gives the results of the equation above.

# Part 2.

1. Create a graph with two variables *x* and *y*. Initialize them to 0.0 and 1.0 respectively. Create two operations that will perform the following assignments: and
2. Create a Session(), initialize the variables, then create a loop that will run 20 times. Each iteration will run the first assignment operation, then the second (separately). Finally, print out

the value of x.

# Part 3.

1. Visualize the tensorflow graph created in Part 2 by saving the summaries of the graphs and then running TensorBoard to display the graph. Use the TensorFlow scoping methods for each operation and variable and then display them on your browser.