Assignment 2

1 Tensorflow Softmax

(a) See file q1_softmax.py

(b) See file q1_softmax.py

(c) The purpose of placeholder is to hold our input data, and the purpose of feed dictionaries is to feed input values to placeholders. See implementation in file q1_classifier.py

(d) See file q1_classifier.py

(e) See file q1_classifier.py. After the model's *train_op* is called, the prediction *y_hat* is computed in the forward propagation and the gradient of loss with respect to W and b is computed during the back propagation. The variable W and b will be changed.

2 Neural Transition-Based Dependency Parsing