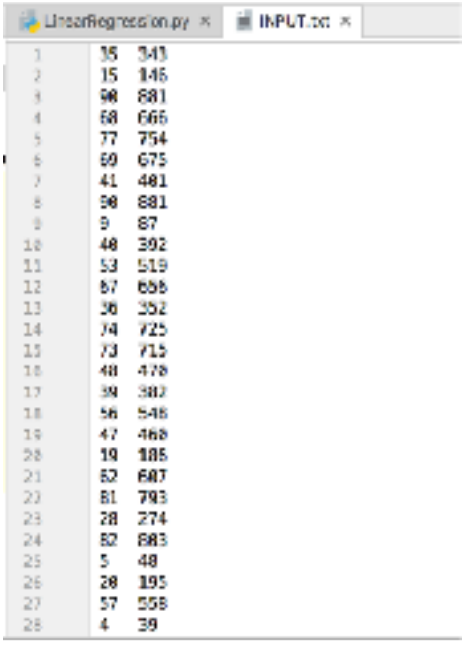
CS5542 Big Data Analytics and App

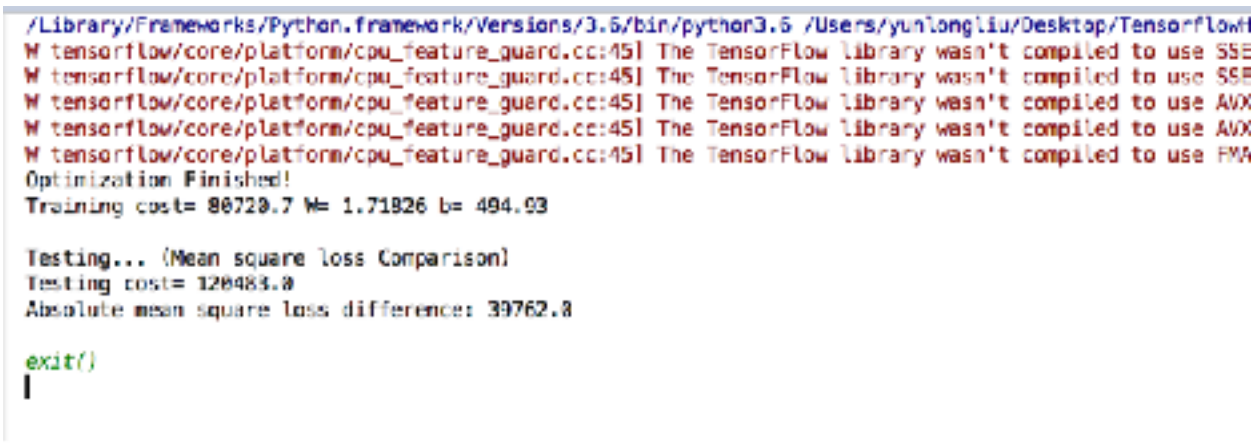
LAB ASSIGNMENT #7

1.TensorFlow Programming:
Write a TensorFlow program for the following Task.

a.Implement linear regression for dataset that is not covered in class (e.g. Boston Dataset -https://archive.ics.uci.edu/ml/datasets/Housing).

I create my own data set for this lab assignment, let me briefly describe it, I set this case into such situation that, using this process to find the linear regression within the G=mg, the first column means the mass a set of objects and the second column means the corresponding gravity of these objects, the when run the data set with this process, then we can finally get the result like following screenshot.





b.Plot training cost using Matplotlib in python.

When using Matplotlib to show the graphical output, I got following result, as you can see from the figure, the input error range is very small, so that it shows us approximately a straight line.