Weifeng Jin

UID: 1769685 LING 570 HW #5 Date: 11/1/2017

Q1-3

The programs for Q1-3 are written in Python3.

$\mathbf{Q4}$

The table for Q4 is shown below:

lambda_1	lambda_2	lambda_3	Perplexity
0.05	0.15	0.8	399.69038601677505
0.1	0.1	0.8	378.5632166941678
0.2	0.3	0.5	237.22367923742323
0.2	0.5	0.3	213.6745449084696
0.2	0.7	0.1	212.307119619485
0.2	0.8	0	236.49117354747054
1.0	0	0	998.5025666101951