## README:

In order to launch code following libraries should be installed:

genism 3.7.2

networkx 2.3

nltk 3.4

matplotlib 3.0.3

smart-open 1.8.1

scipy 1.2.1

numpy 1.16.2

### *Word2Vec*

In order to use word2vec you can download ready model from link or train by yourself by downloading quora dataset: link and changing path_to_dataset variable in word2vec_expansion.py file.

### *Evaluation*

Change PATH_TO_DATA variable in main.py to path where cranfield dataset located.

### *Part1*

To reproduce results of part1 run main.py

### *Part2*

To reproduce results of part1 run doc_summary_evaluation.py

If you want to plot results change variable in evaluation.py file eleven_points_interpolated_avg function plot=True.