**BERT**

This code needs following packages:

Pandas, os, nltk, string, torch, transformers, sklearn

**importance**

This code needs following packages:

numpy, scipy, collections, transformers, torch, pandas, os, tqdm, re, nltk

As we divide 1996-2006 into 3 groups, the complete reproduction needs to run this code 3 times. The point is to change the csv file name and the index name in block 5, and change the path name in block 6, and the last block’s ‘df.to\_csv’ file name.

Also, all results are enclosed in the file ‘**word importance**’, replicating this code is not necessary.