Demo for Project 1 of COMP 479 by Silas Kalinowski ID: 40256077

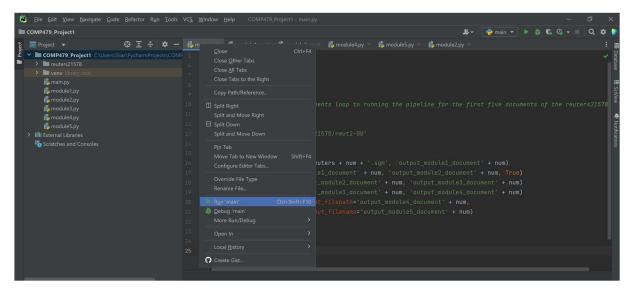
The program can be started by running the main.py file in a Python environment. For the program to work all modules and all input files need to be in the local directory. Also, the program uses NLTK, which needs to be downloaded. For the stemmer and module 5 nltk.download('stopwords') might have to be used. The output files are saved in the local directory and are named in the following manner: output moduleMODULENUMBER documentDOCUMENTNUMBER.

The testing of the program starts automatically when running the main file. The result of the tests is printed in the console. The following screenshots display the whole process of running the pipeline and testing it.

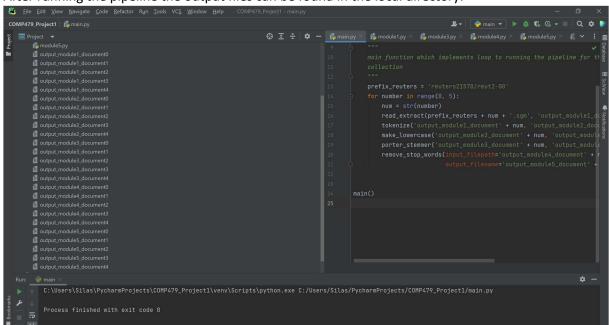
This screenshot shows the directory and main module of the pipeline before running the pipeline.

```
Comparable Edit View Navigate Code Gelactor Rum Iools VCS Window Help COMP479.Project1 - Service Analysis Comparable Code Selector Rum Iools VCS Window Help COMP479.Project1 - Service Analysis Comparable Code Selector Comparable Code Selector Code Select
```

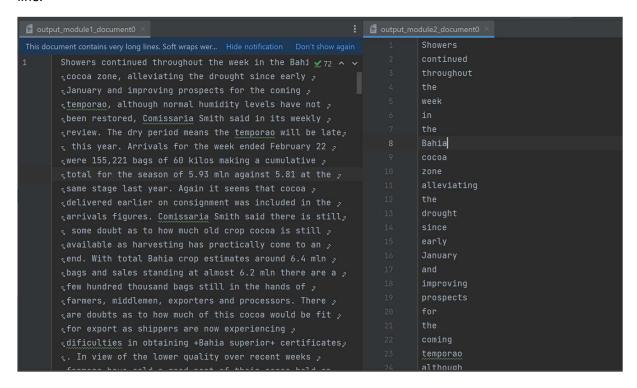
By running the main module the pipeline will process the first five files of the reuters21578 collection automatically.



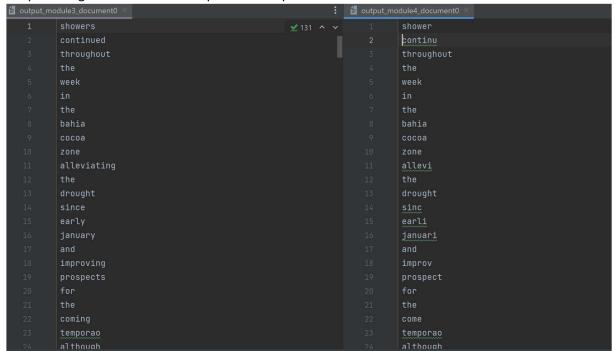
After running the pipeline the output files can be found in the local directory.



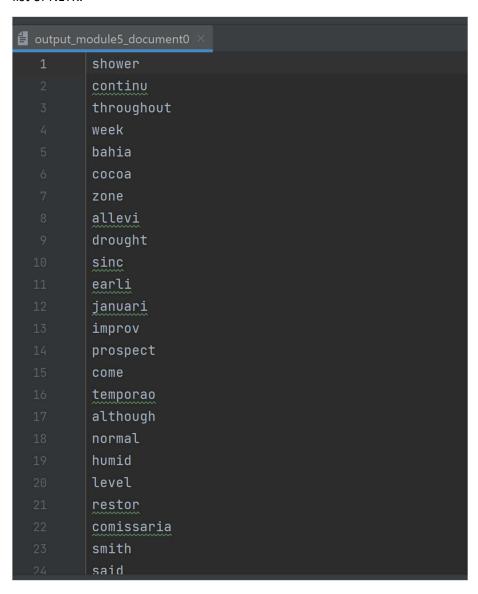
These are the output files of module 1 and 2 for document 0. You can see that module 1 properly extracted the articles' bodies and module 2 tokenized the text and wrote every token in a separate line.



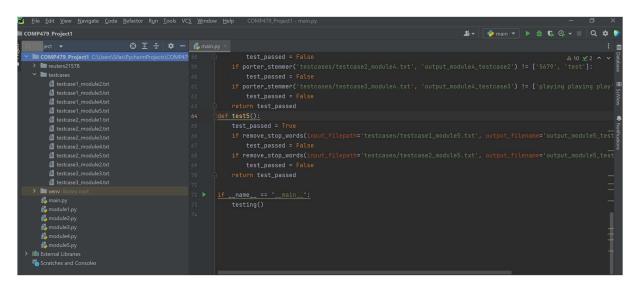
These are the output files of module 3 and 4 for document 0. You can see that module 3 successfully made all the tokens lowercase and module 4 successfully stemmed all the tokens. Both modules keep the original structure of the previous output files.



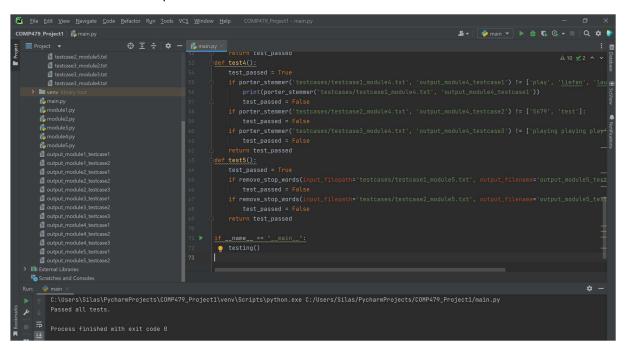
This screenshot shows the output file of the module 5 for document 0. You can see that some stop words were removed for example the word 'for' was removed because it is in the English stop words list of NLTK.



This screenshot shows how you test the pipeline. I only ran the testing without processing the reuters files in this screenshot. By default, the testing and the processing of the files are both started automatically when running the main.py file.



This screenshot shows the output files that are created after testing. Also, if the pipeline passes all tests 'Passed all tests.' is printed in the console.



I certify that this submission is my original work and meets the Faculty's Expectations of Originality.

Signature ID: 40256077 Date 2022-09-22

5. Relineresti