**Documentation For running the solution:**

**Step 1: Installing necessary dependencies:**

1. **Installing NLTK:**

First run the command on the command prompt, PowerShell or Terminal.

**pip install nltk**

After this has finished installation,

Run python by typing ‘python’ or ‘python3’ on bash.

After this import nltk by using command:

**import nltk**

And then necessary nltk data by using command:

**nltk.download()**

This will open a nltk download window, select ‘download all’ and download all the necessary data required.

1. **Installing pandas:**

Run the command on the command prompt, PowerShell or Terminal.

**pip install pandas**

1. **Installing xlrd:**

Run the command on the command prompt, PowerShell or Terminal.

**pip install xlrd**

1. **Installing xlwt:**

Run the command on the command prompt, PowerShell or Terminal.

**pip install xlwt**

**Step 2: Running the solution:**

The solution can be run by just running the ‘solution.py’ file from the bash.

To do this move to the solution directory on the bash or open bash inside ‘Solution’ folder and run the command:

**python3 solution.py**

**or**

**python solution.py**

This will run the solution and output could be observed in ‘Output1.xls’ file.