

Write a python script that:

Reads all the file names from a directory given to command line (sent using the argv array by the user)	5 pts
The folder will contain only .mail files. The structure of this type of files is defined as follows: <ul style="list-style-type: none">- First line contains the sender email- Second line contains the receiver email- All the lines behind are the content of the email	
For each file that ends in <code>`.mail`</code> you should:	
<ul style="list-style-type: none">- parse it and extract the sender email, receiver email and the entire text	5 pts
<ul style="list-style-type: none">- dump the content of in a file called <code>`.summary.data`</code> in the following format: FORMAT: <sender_email> sent a message to <receiver_email> and the top 5 most frequent words were: Test, 1234, Hello, Python, Exam NOTE: the file will be opened in append mode and it will contain the summaries from all files	15 pts
<ul style="list-style-type: none">- in the end you should tell which user was the most active (sent most emails), which are the top 5 most frequent words and the average size of an email	8 pts
You must do error handling for all cases NOTE: handling only with <code>`.catch Exception as e`</code> will be given half points	5 pts
You must process the directories recursively	5 pts
After all the logic is done, you must show (print) some statistics (how many files were processed, the extensions of the files, total size of files)	7 pts

Note:

- the code should run correctly and have a main function called (2 pts)
- if the code is written in C style, you only get 75% of the maximum points per item!