**Q3:** MapReduce-based program to display/generate a word count for each unique keyword of any given text document.

**Created two file one is mapper.py which count the number of words in file , other is reducer.py file read the output of mapper.py and sum the occurrence of each word to the final count.**

**Text

Description automatically generated**

**Content of mapper.py**

**Text

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**Content of reducer.py**

**Text

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**Content of testing.txt file**

**Text

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**In the folder where these files are located run the command**

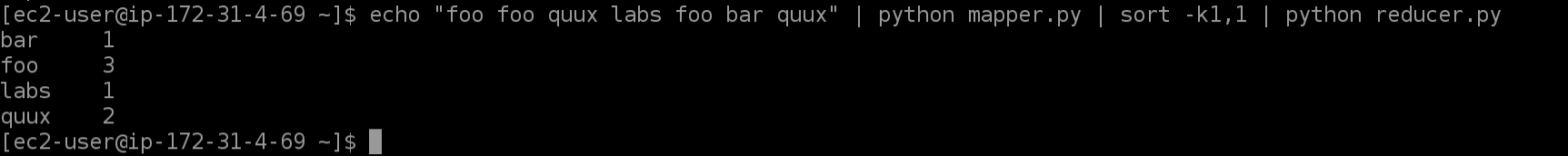
**echo "foo foo quux labs foo bar quux" | python mapper.py**

**Text

Description automatically generated**

**Pass the output of this mapper.py in the reducer.py file**

**$echo "foo foo quux labs foo bar quux" | python mapper.py | sort -k1,1 | python reducer.py**

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**Now test with given file testing.txt**

**$cat testing.txt | python mapper.py | sort -k1,1**

**Text

Description automatically generated**

**$cat testing.txt | python mapper.py | sort -k1,1 | python reducer.py**

**Text

Description automatically generated**