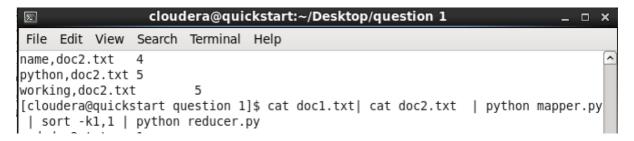**Part 4: Writeup (10)**

    A. Question 1

<u>**Input**</u> **:**

Doc1.txt: A paragraph is a self-contained unit of discourse in writing dealing with a particular point or idea. A paragraph consists of one or more sentences. Though not required by the
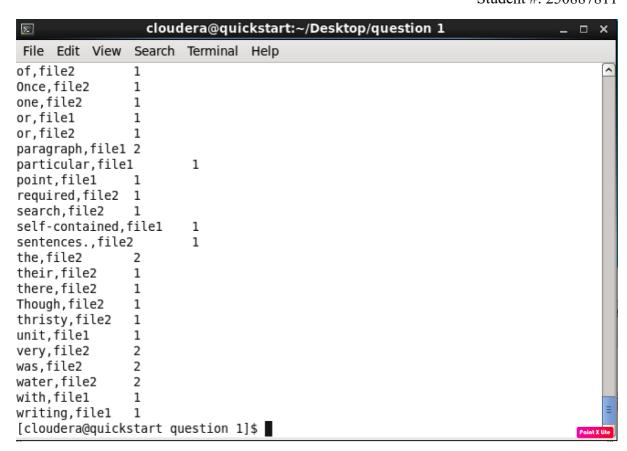
Doct2.txt: Once there was lion . He felt very thristy . He search water hare and their but not found water . the lon was very ill .

```
┌─ ▣            cloudera@quickstart:~/Desktop/question 1        _ □ ✕
│ File  Edit  View  Search  Terminal  Help
│name,doc2.txt    4
│python,doc2.txt 5
│working,doc2.txt         5
│[cloudera@quickstart question 1]$ cat doc1.txt| cat doc2.txt  | python mapper.py
│ | sort -k1,1 | python reducer.py
```

Output :

```
 File  Edit  View  Search  Terminal  Help
A,file1 2
and,file2       1
but,file2       1
by,file2        1
consists,file1  1
dealing,file1   1
discourse,file1 1
felt,file2      1
.,file2 4
found,file2     1
hare,file2      1
He,file2        2
idea.,file1     1
ill,file2       1
in,file1        1
is,file1        1
lion,file2      1
lon,file2       1
more,file2      1
not,file2       2
of,file1        1
of,file2        1
Once,file2      1
one,file2       1
```

```
 cloudera@quickstart:~/Desktop/question 1          _ □ ✕

File  Edit  View  Search  Terminal  Help
of,file2          1
Once,file2        1
one,file2         1
or,file1          1
or,file2          1
paragraph,file1 2
particular,file1        1
point,file1       1
required,file2  1
search,file2      1
self-contained,file1    1
sentences.,file2        1
the,file2         2
their,file2       1
there,file2       1
Though,file2      1
thristy,file2     1
unit,file1        1
very,file2        2
was,file2         2
water,file2       2
with,file1        1
writing,file1     1
[cloudera@quickstart question 1]$ █
```

B. Question 2

Input:

My name is hadeya. I am a big data expert working as a python developer.   My name is
hadeya. I am a big data expert working as a python developer.My name is hadeya. I am a big
data expert working as a python developer.
My name is hadeya. I am a big data expert working as a python developer.
My name is hadeya. I am a big data expert working as a python developer.
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Adwww.ruralliteracysolutions.com/+233 24 603 1185
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curricula education. Non Profit charity. Highlights: Community-Based Organization,
Donation Option Available.
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Adesl.eternallife.site/english-2ndlang/bible-stories
Learn English Free with some Bible stories, starting with Abraham. Learn the Story. Take a
Look at the Book. Examine the Messag

Input Command:

```
[cloudera@quickstart ~]$ hadoop jar /usr/lib/hadoop-0.20-mapreduce/contrib/strea
ning/hadoop-streaming-2.6.0-mr1-cdh5.10.0.jar -Dmared.reduce.task=1 -file mapper
.py reducer.py -mapper "python mapper.py" -reducer "python reducer.py" -input do
:1.txt -output wc OUTPUT
```

Output:

```
a,big    5
am,a     5
a,python         5
as,a     5
big,data         5
data,expert      5
developer.,My    3
developer.My,name        1
expert,working   5
hadeya.,I        5
I,am     5
is,hadeya.       5
My,name 4
name,is 5
python,developer.        4
python,developer.My      1
working,as       5
```

Paint X lite

C. Question 3

Input:

My name is hadeya. I am a big data expert working as a python developer.   My name is
hadeya. I am a big data expert working as a python developer.My name is hadeya. I am a big
data expert working as a python developer.
My name is hadeya. I am a big data expert working as a python developer.
My name is hadeya. I am a big data expert working as a python developer.
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Adesl.eternallife.site/english-2ndlang/bible-stories
Learn English Free with some Bible stories, starting with Abraham. Learn the Story. Take a
Look at the Book. Examine the Messag

Output:

```
[cloudera@quickstart question 3]$ cat file.txt | python mapper1.py | sort -k1,1
| python reducer1.py | python mapper2.py | sort -k1,1 | python reducer2.py
No. brigrams which are uniqe    72
[cloudera@quickstart question 3]$
```

1. **What would you like to have done given more time?**

If I got time, I would like work on large data sets to check the results more extensively.

2. **How difficult was it to implement? How difficult would it be to implement another task, given this experience? What would be straightforward? What would take more time?**

Understanding the new software and implementation was a little difficult at first, which is to be expected when learning something foreign. But as I worked on it more and more it was a learning curve. It would not be more difficult to implement again as the main concept remains the same and now, I am equipped with the knowledge I need. The part that would take the most time would be understanding the behavior of architecture in the beginning.