Day 3

Task 1:

 $\label{thm:continuous} Execute Word Median\,, Word Mean\,, Word Standard Deviation\, programs \\ using hadoop-map reduce-examples-2.9.0. jar file present in your \\ Acad Gild VM.$

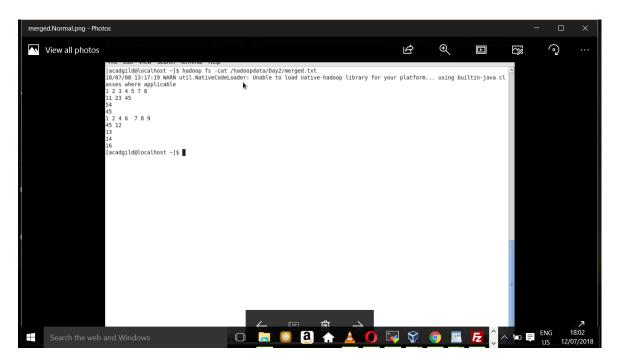
Ans:

Input file contents before running each of above commands:

hadoop fs -cat /hadoopdata/Day2/merged.txt

(Displays the complete content of the file passed onto terminal)

ScreenShot(s):



1: WordMedian

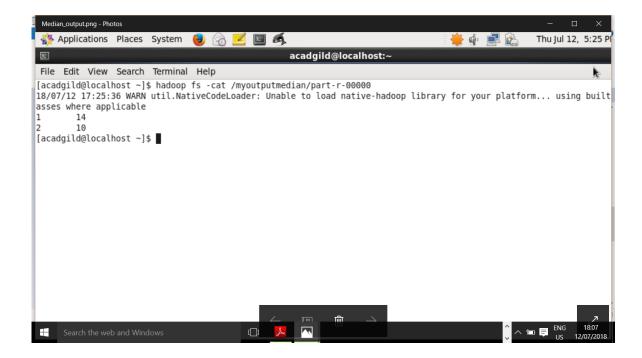
hadoop jar hadoop-mapreduce-examples-2.6.5.jar wordmedian /hadoopdata/Day2/merged.txt /myoutputmedian

(A map/reduce program that counts the median length of the words in the input file(s).)

Output:

```
Combine output records=2
                Reduce input groups=2
                Reduce shuffle bytes=26
                Reduce input records=2
                Reduce output records=2
                Spilled Records=4
                Shuffled Maps =1
                Failed Shuffles=0
                Merged Map outputs=1
                GC time elapsed (ms)=523
                CPU time spent (ms)=7160
Physical memory (bytes) snapshot=407154688
                Virtual memory (bytes) snapshot=4167270400
                Total committed heap usage (bytes)=280494080
       Shuffle Errors
                BAD ID=0
                CONNECTION=0
                IO ERROR=0
                WRONG LENGTH=0
                WRONG MAP=0
                WRONG REDUCE=0
       File Input Format Counters
                Bytes Read=70
       File Output Format Counters
                Bytes Written=10
The median is: 1
[acadgild@localhost ~]$
acadgild@localhost:~
```

Out-File:



2: WordMean

hadoop jar hadoop-mapreduce-examples-2.6.5.jar wordmean /hadoopdata/Day2/merged.txt /myoutput_mean

(A map/reduce program that counts the average length of the words in the input files.)

ScreenShot(s):

```
nean.png - Photos
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                                                                               2
                                                                                      (P)
View all photos
                 nergeu nap outputs
                GC time elapsed (ms)=540
                CPU time spent (ms)=6020
                Physical memory (bytes) snapshot=405778432
                Virtual memory (bytes) snapshot=4170878976
                Total committed heap usage (bytes)=282066944
        Shuffle Errors
                BAD ID=0
                CONNECTION=0
                IO ERROR=0
                WRONG LENGTH=0
                WRONG MAP=0
                WRONG REDUCE=0
        File Input Format Counters
                Bytes Read=70
        File Output Format Counters
                Bytes Written=19
The mean is: 1.41666666666666667
[acadgild@localhost ~]$
```

out-file:

```
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                                                                                                                                                                                                                                                                                                                                                                                                                🖐 🏚 🔳 🚱 Thu Jul 12. 5:36 PM Acadgild
  E
                                                                                                                                                                                                                                                    acadgild@localhost:~
    [acadgild@localhost ~]$ hadoop fs -ls /
       8/07/12 17:34:06 WARN util NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
Found 14 items
from diver.x-r.x - acadgild supergroup
drwxr-x-r.x - acadgild supergroup
drwxr-x-x - acadgild supergroup
drwxr-x-r.x - acadgild supergroup
drwxr-x-x - acadgild supergroup
drwxr-x-x - acadgild supergroup
     asses where applicable
                                                                                                                                                                                                                 0 2018-07-12 14:11 /SqoopSimpliDbAllTables
0 2018-07-12 17:05 /delme
0 2018-07-07 19:10 /hadoop
0 2018-07-11 15:13 /hadoopdata
0 2018-07-12 17:14 /myoutput
0 2018-07-12 17:32 /myoutput mean
0 2018-07-12 17:32 /myoutput mean
0 2018-07-12 17:32 /myoutputmedian
0 2018-07-12 15:08 /output
0 2018-07-07 18:20 /sqoopout
0 2018-07-07 18:20 /sqoopout
0 2018-07-08 10:23 /user
0 2018-07-08 00:23 /user
0 2018-07-08 00:23 /user
0 2018-07-07 23:00 /useracadqild
                                                                                                                                                                                                                    0 2018-07-07 23:00 /useracadgild
0 2018-07-07 22:11 /word-count.txt
    drwxr-xr-x - acadgild supergroup 0 2018-07-07 22:11 /word-count.txt
[acadgild@localhost -]$ hadoop fs -ls /myoutputmedian
18/07/12 17:35:02 WANN uil.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
  18/07/12 17:35:02 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl asses where applicable
Found 2 items

- Tw-r---- 1 acadgild supergroup

0 2018-07-12 17:22 /myoutputmedian/_SUCCESS

- Tw-r---- 1 acadgild supergroup

10 2018-07-12 17:22 /myoutputmedian/part-r-00000

[acadgild@localhost -]$ hadoop fs -ls /myoutput_mean

18/07/12 17:35:19 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl asses where applicable

Found 2 items

0 2018-07-12 17:32 /myoutput mean/ SUCCESS
    round 2 ltems
-rw-r--r- 1 acadgild supergroup 0 2018-07-12 17:32 /myoutput_mean/_SUCCESS
-rw-r--r- 1 acadgild supergroup 19 2018-07-12 17:32 /myoutput_mean/part-r-00000
[acadgild@localhost -]$ hadoop fs -ls /myoutput_mean/part-r-00000
[acadgild@localhost -]$ hadoop fs -ls /myoutput_mean/part-r-00000
[B/07/12 17:35:48 WARN util.NativeCodeLoader: Unable to load native hadoop library for your platform... using builtin-java cl
  18/0//12 17:30:40 mRNN UIL:INGLIVEDUCATION CONTROL OF THE MEMORY OF THE 
    asses where applicable count 24 length 34 [acadgild@localhost ~]$
       acadgild@localhost:~
```

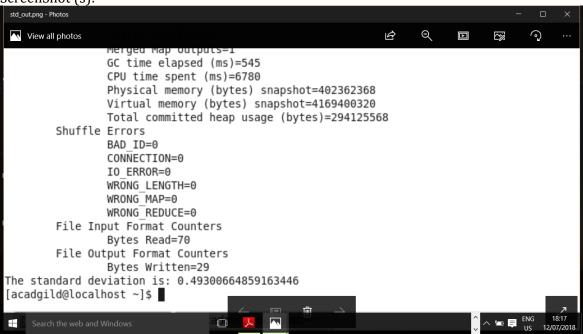
3:WordStandardDeviation

hadoop jar hadoop-mapreduce-examples-2.6.5.jar wordstandarddeviation /hadoopdata/Day2/merged.txt /myoutput_std

(A map/reduce program that counts the standarddeviation of the length of the words in the

input file(s))

ScreenShot (s):



Output:

