

Assignment_3

1) Used the suggested jar to calculate wordmedian that gave the output as 4.

```
[acadgild@localhost sbin]$ hadoop jar /home/acadgild/install/hadoop/hadoop-2.6.5/share/hadoop/mapreduce/hadoop-mapreduce-examples-2.6.5.jar wordmedian /user/acadgild/hadoop/word-count.txt /output
18/11/14 01:11:22 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
18/11/14 01:11:27 INFO client.RMProxy: Connecting to ResourceManager at localhost/127.0.0.1:8032
18/11/14 01:11:32 WARN mapreduce.JobResourceUploader: Hadoop command-line option parsing not performed. Implement the Tool interface and execute your application with ToolRunner to remedy this.
18/11/14 01:11:36 INFO input.FileInputFormat: Total input paths to process : 1
18/11/14 01:11:36 INFO mapreduce.JobSubmitter: number of splits:1
18/11/14 01:11:38 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_1542135100691_0001
18/11/14 01:11:41 INFO impl.YarnClientImpl: Submitted application application_1542135100691_0001
18/11/14 01:11:42 INFO mapreduce.Job: The url to track the job: http://localhost:8088/proxy/application_1542135100691_0001/
18/11/14 01:11:42 INFO mapreduce.Job: Running job: job_1542135100691_0001
^[[18/11/14 01:13:00 INFO mapreduce.Job: Job job_1542135100691_0001 running in uber mode : false
18/11/14 01:13:00 INFO mapreduce.Job:  map 0% reduce 0%
18/11/14 01:13:41 INFO mapreduce.Job:  map 100% reduce 0%
18/11/14 01:14:28 INFO mapreduce.Job:  map 100% reduce 100%
18/11/14 01:14:34 INFO mapreduce.Job: Job job_1542135100691_0001 completed successfully
18/11/14 01:14:39 INFO mapreduce.Job: Counters: 49
    File System Counters
      FILE: Number of bytes read=76
      FILE: Number of bytes written=215243
      FILE: Number of read operations=0
      FILE: Number of large read operations=0
      FILE: Number of write operations=0
      HDFS: Number of bytes read=211
      HDFS: Number of bytes written=28
      HDFS: Number of read operations=6
      HDFS: Number of large read operations=0

    Total committed heap usage (bytes)=170004400

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=89
File Output Format Counters
  Bytes Written=28
18/11/14 01:14:40 INFO mapred.ClientServiceDelegate: Application state is completed. FinalApplicationStatus
cting to job history server
The median is: 4
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost sbin]$ hadoop
```

2) Executed the same jar to calculate the wordmean:

```
[acadgild@localhost sbin]$ hadoop jar /home/acadgild/install/hadoop/hadoop-2.6.5/share/hadoop/mapreduce/hadoop-mapreduce-examples-2.6.5.jar wordmean /user/acadgild/hadoop/word-count.txt /output_wordmean
```

Output Shown on screen:

```
18/11/14 01:45:12 INFO mapred.ClientServiceDelegate: Application state is completed. FinalApplicationStatus=SUCCEEDED. Redirecting to job history server
The mean is: 4.235294117647059
You have new mail in /var/spool/mail/acadgild
```

Output from file

```
[acadgild@localhost sbin]$ hadoop fs -cat /output_wordmean/part-r-00000
18/11/14 01:53:34 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
count 17
length 72
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost sbin]$
```

3) Executed the same jar to calculate the wordstandarddeviation:

Output Shown on screen:

```
bytes read=0
File Output Format Counters
  Bytes Written=30
18/11/14 02:00:23 INFO mapred.ClientServiceDelegate: Application state
cting to job history server
The standard deviation is: 2.2629863601966287
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost sbin]$
```

Output from file:

```
18/11/14 02:00:23 INFO mapred.ClientServiceDelegate: Application stat
cting to job history server
The standard deviation is: 2.2629863601966287
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost sbin]$ hadoop fs -cat /output_sd/part-r-00000
18/11/14 02:01:48 WARN util.NativeCodeLoader: Unable to load native-f
asses where applicable
count 17
length 72
square 392
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost sbin]$
```