ASSIGNMENT-3

1:Wordmedian:

```
[acadgild@localhost sbin]$ hadoop jar /home/acadgild/install/hadoop/hadoop-2.6.5/share/hadoop/mapreduce/hadoop-mapreduce-exam
ples-2.6.5.jar wordmedian /new.txt wordmedian
19/01/12 21:05:35 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
19/01/12 21:05:38 INFO client.RMProxy: Connecting to ResourceManager at localhost/127.0.0.1:8032
19/01/12 21:05:41 WARN mapreduce.JobResourceUploader: Hadoop command-line option parsing not performed. Implement the Tool in
terface and execute your application with ToolRunner to remedy this.
19/01/12 21:05:43 INFO input.FileInputFormat: Total input paths to process : 1
19/01/12 21:05:43 INFO mapreduce.JobSubmitter: number of splits:1
19/01/12 21:05:44 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_1547306488017_0004
19/01/12 21:05:45 INFO impl.YarnClientImpl: Submitted application application_1547306488017_0004
19/01/12 21:05:46 INFO mapreduce.Job: The url to track the job: http://localhost:8088/proxy/application_1547306488017_0004/
19/01/12 21:05:46 INFO mapreduce.Job: Running job: job_1547306488017_0004
19/01/12 21:06:09 INFO mapreduce.Job: Job job_1547306488017_0004 running in uber mode : false
19/01/12 21:06:09 INFO mapreduce.Job:  map 0% reduce 0%
19/01/12 21:06:26 INFO mapreduce.Job:  map 100% reduce 0%
19/01/12 21:06:46 INFO mapreduce.Job:  map 100% reduce 100%
19/01/12 21:06:48 INFO mapreduce.Job: Job job_1547306488017_0004 completed successfully
19/01/12 21:06:49 INFO mapreduce.Job: Counters: 49
        File System Counters
                FILE: Number of bytes read=106
                FILE: Number of bytes written=215283
                FILE: Number of read operations=0
                FILE: Number of large read operations=0
                FILE: Number of write operations=0
                HDFS: Number of bytes read=248
                HDFS: Number of bytes written=43
                HDFS: Number of read operations=6
                HDFS: Number of large read operations=0
                HDFS: Number of write operations=2
        Job Counters
                Launched map tasks=1
                Launched reduce tasks=1                              Hbase
```

2.WORDMEAN:

```
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost sbin]$ hadoop jar /home/acadgild/install/hadoop/hadoop-2.6.5/share/hadoop/mapreduce/hadoop-mapreduce-exam
ples-2.6.5.jar wordmean /new.txt wordmean
19/01/12 21:10:19 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
19/01/12 21:10:22 INFO client.RMProxy: Connecting to ResourceManager at localhost/127.0.0.1:8032
19/01/12 21:10:26 INFO input.FileInputFormat: Total input paths to process : 1
19/01/12 21:10:27 INFO mapreduce.JobSubmitter: number of splits:1
19/01/12 21:10:27 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_1547306488017_0005
19/01/12 21:10:28 INFO impl.YarnClientImpl: Submitted application application_1547306488017_0005
19/01/12 21:10:29 INFO mapreduce.Job: The url to track the job: http://localhost:8088/proxy/application_1547306488017_0005/
19/01/12 21:10:29 INFO mapreduce.Job: Running job: job_1547306488017_0005
19/01/12 21:10:52 INFO mapreduce.Job: Job job_1547306488017_0005 running in uber mode : false
19/01/12 21:10:52 INFO mapreduce.Job:  map 0% reduce 0%
19/01/12 21:11:11 INFO mapreduce.Job:  map 100% reduce 0%
19/01/12 21:11:29 INFO mapreduce.Job:  map 100% reduce 100%
19/01/12 21:11:30 INFO mapreduce.Job: Job job_1547306488017_0005 completed successfully
19/01/12 21:11:31 INFO mapreduce.Job: Counters: 49
        File System Counters
                FILE: Number of bytes read=39
                FILE: Number of bytes written=215409
                FILE: Number of read operations=0
```

```
                Combine input records=32
                Combine output records=2
                Reduce input groups=2
                Reduce shuffle bytes=39
                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)=405
                CPU time spent (ms)=3940
                Physical memory (bytes) snapshot=293048320
                Virtual memory (bytes) snapshot=4118220800
                Total committed heap usage (bytes)=170004480
        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=154
        File Output Format Counters
                Bytes Written=20
The mean is: 4.923076923076923
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost sbin]$
```

3:WordStandardDeviation:

```
[acadgild@localhost sbin]$ hadoop jar /home/acadgild/install/hadoop/hadoop-2.6.5/share/hadoop/mapreduce/hadoop-mapreduce-exam
ples-2.6.5.jar wordstandarddeviation /new.txt wordstandarddeviation
19/01/12 21:14:17 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
19/01/12 21:14:21 INFO client.RMProxy: Connecting to ResourceManager at localhost/127.0.0.1:8032
19/01/12 21:14:25 INFO input.FileInputFormat: Total input paths to process : 1
19/01/12 21:14:26 INFO mapreduce.JobSubmitter: number of splits:1
19/01/12 21:14:26 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_1547306488017_0006
19/01/12 21:14:27 INFO impl.YarnClientImpl: Submitted application application_1547306488017_0006
19/01/12 21:14:28 INFO mapreduce.Job: The url to track the job: http://localhost:8088/proxy/application_1547306488017_0006/
19/01/12 21:14:28 INFO mapreduce.Job: Running job: job_1547306488017_0006
19/01/12 21:14:52 INFO mapreduce.Job: Job job_1547306488017_0006 running in uber mode : false
19/01/12 21:14:52 INFO mapreduce.Job:  map 0% reduce 0%
19/01/12 21:15:11 INFO mapreduce.Job:  map 100% reduce 0%
19/01/12 21:15:30 INFO mapreduce.Job:  map 100% reduce 100%
19/01/12 21:15:31 INFO mapreduce.Job: Job job_1547306488017_0006 completed successfully
19/01/12 21:15:32 INFO mapreduce.Job: Counters: 49
        File System Counters
                FILE: Number of bytes read=56
                FILE: Number of bytes written=215629
                FILE: Number of read operations=0
                FILE: Number of large read operations=0
                FILE: Number of write operations=0
                HDFS: Number of bytes read=248
                HDFS: Number of bytes written=31
                HDFS: Number of read operations=6
                HDFS: Number of large read operations=0
                HDFS: Number of write operations=2
        Job Counters
```

```
        Map-Reduce Framework
                Map input records=1
                Map output records=78
                Map output bytes=1144
                Map output materialized bytes=56
                Input split bytes=94
                Combine input records=78
                Combine output records=3
                Reduce input groups=3
                Reduce shuffle bytes=56
                Reduce input records=3
                Reduce output records=3
                Spilled Records=6
                Shuffled Maps =1
                Failed Shuffles=0
                Merged Map outputs=1
                GC time elapsed (ms)=410
                CPU time spent (ms)=3930
                Physical memory (bytes) snapshot=293691392
                Virtual memory (bytes) snapshot=4123090944
                Total committed heap usage (bytes)=170004480
        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=154
        File Output Format Counters
                Bytes Written=31
The standard deviation is: 3.361811289755716
```