Task 1:
Execute **WordMedian** , **WordMean** , **WordStandardDeviation** programs using
hadoop-mapreduce-examples-2.9.0.jar file present in your AcadGild VM.
Refer path below.
/home/acadgild/install/hadoop/hadoop-2.6.5/share/hadoop/mapreduce.

Solution:

WordMedian

```
[acadgild@localhost ~]$ hadoop jar /home/acadgild/install/hadoop/hadoop-2.6.5/share/hadoop/map
reduce/hadoop-mapreduce-examples-2.6.5.jar wordmedian /test.txt /output
18/07/15 20:51:06 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your pl
atform... using builtin-java classes where applicable
18/07/15 20:51:08 INFO client.RMProxy: Connecting to ResourceManager at localhost/127.0.0.1:80
32
18/07/15 20:51:09 WARN mapreduce.JobResourceUploader: Hadoop command-line option parsing not p
erformed. Implement the Tool interface and execute your application with ToolRunner to remedy
this.
18/07/15 20:51:10 INFO input.FileInputFormat: Total input paths to process : 1
18/07/15 20:51:10 INFO mapreduce.JobSubmitter: number of splits:1
18/07/15 20:51:10 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_1531633766377_00
03
18/07/15 20:51:11 INFO impl.YarnClientImpl: Submitted application application_1531633766377_00
03
18/07/15 20:51:11 INFO mapreduce.Job: The url to track the job: http://localhost:8088/proxy/ap
plication_1531633766377_0003/
18/07/15 20:51:11 INFO mapreduce.Job: Running job: job_1531633766377_0003
18/07/15 20:51:24 INFO mapreduce.Job: Job job_1531633766377_0003 running in uber mode : false
18/07/15 20:51:24 INFO mapreduce.Job:  map 0% reduce 0%
18/07/15 20:51:32 INFO mapreduce.Job:  map 100% reduce 0%
18/07/15 20:51:42 INFO mapreduce.Job:  map 100% reduce 100%
18/07/15 20:51:44 INFO mapreduce.Job: Job job_1531633766377_0003 completed successfully
18/07/15 20:51:44 INFO mapreduce.Job: Counters: 49
        File System Counters
                FILE: Number of bytes read=56
```

```
[acadgild@localhost ~]$ hadoop fs -ls /output
18/07/15 20:52:16 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your pl
atform... using builtin-java classes where applicable
Found 2 items
-rw-r--r--   1 acadgild supergroup          0 2018-07-15 20:51 /output/_SUCCESS
-rw-r--r--   1 acadgild supergroup         20 2018-07-15 20:51 /output/part-r-00000
[acadgild@localhost ~]$ hadoop fs -cat /output/part-r-00000
18/07/15 20:52:39 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your pl
atform... using builtin-java classes where applicable
2       4
4       4
5       4
8       1
9       3
[acadgild@localhost ~]$
```

WordMean

```
[acadgild@localhost ~]$ hadoop jar /home/acadgild/install/hadoop/hadoop-2.6.5/share/hadoop/mapreduce/hadoop-mapreduce-examples-2.6.5.jar wordmean /test.txt /output1
18/07/22 13:09:38 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
18/07/22 13:09:39 INFO client.RMProxy: Connecting to ResourceManager at localhost/127.0.0.1:8032
18/07/22 13:09:41 INFO input.FileInputFormat: Total input paths to process : 1
18/07/22 13:09:42 INFO mapreduce.JobSubmitter: number of splits:1
18/07/22 13:09:42 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_1532184501250_0010
18/07/22 13:09:42 INFO impl.YarnClientImpl: Submitted application application_1532184501250_0010
18/07/22 13:09:43 INFO mapreduce.Job: The url to track the job: http://localhost:8088/proxy/application_1532184501250_0010/
18/07/22 13:09:43 INFO mapreduce.Job: Running job: job_1532184501250_0010
18/07/22 13:09:56 INFO mapreduce.Job: Job job_1532184501250_0010 running in uber mode : false
18/07/22 13:09:56 INFO mapreduce.Job:  map 0% reduce 0%
18/07/22 13:10:05 INFO mapreduce.Job:  map 100% reduce 0%
18/07/22 13:10:17 INFO mapreduce.Job:  map 100% reduce 100%
18/07/22 13:10:18 INFO mapreduce.Job: Job job_1532184501250_0010 completed successfully
```

```
[acadgild@localhost ~]$ hadoop fs -ls /output1
18/07/22 13:11:57 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Found 2 items
-rw-r--r--   1 acadgild supergroup          0 2018-07-22 13:10 /output1/_SUCCESS
-rw-r--r--   1 acadgild supergroup         19 2018-07-22 13:10 /output1/part-r-00000
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ hadoop fs -cat /output1/part-r-00000
18/07/22 13:12:21 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
count   16
length  79
[acadgild@localhost ~]$
```

==WordStandardDeviation==

[acadgild@localhost ~]$ ==hadoop jar /home/acadgild/install/hadoop/hadoop-2.6.5/share/hadoop/mapreduce/hadoop-mapreduce-examples-2.6.5.jar wordstandarddeviation /test.txt /output2==
18/07/22 13:15:31 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
18/07/22 13:15:32 INFO client.RMProxy: Connecting to ResourceManager at localhost/127.0.0.1:8032
18/07/22 13:15:34 INFO input.FileInputFormat: Total input paths to process : 1
18/07/22 13:15:34 INFO mapreduce.JobSubmitter: number of splits:1
18/07/22 13:15:34 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_1532184501250_0011
18/07/22 13:15:35 INFO impl.YarnClientImpl: Submitted application application_1532184501250_0011
18/07/22 13:15:35 INFO mapreduce.Job: The url to track the job: http://localhost:8088/proxy/application_1532184501250_0011/
18/07/22 13:15:35 INFO mapreduce.Job: Running job: job_1532184501250_0011
18/07/22 13:15:48 INFO mapreduce.Job: Job job_1532184501250_0011 running in uber mode : false
18/07/22 13:15:48 INFO mapreduce.Job: map 0% reduce 0%
18/07/22 13:15:57 INFO mapreduce.Job: map 100% reduce 0%
18/07/22 13:16:07 INFO mapreduce.Job: map 100% reduce 100%
18/07/22 13:16:08 INFO mapreduce.Job: Job job_1532184501250_0011 completed successfully

[acadgild@localhost ~]$ ==hadoop fs -cat /output2/part-r-00000==
18/07/22 13:38:00 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
==count   16==
==length   79==
==square   487==
[acadgild@localhost ~]$

Thanks,

Shishir