## Assignment 3:Map-reduce

## 1.WordMedian:

#### **Comand:**

hadoop jar hadoop-mapreduce-examples-2.6.5.jar wordmedian /user/acadgild/input/abc.txt /user/acadgild/output/wordmedian/

```
File Edit View Search Terminal Help
[acadgild@localhost mapreduce]$ hadoop jar hadoop-mapreduce-examples-2.6.5.jar wordmedian /user/acadgild/input/abc.txt /user/acadgild/output/wordmedian/
```

create \_Sucess and part-r-00000 file in /user/acadgild/output/wordmedian

```
[acadgild@localhost mapreduce]$ hdfs dfs -ls /user/acadgild/output/wordmedian/
18/09/01 12:57:12 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 2018-09-01 12:56 /user/acadgild/output/wordmedian/ SUCCESS
-rw-r--r-- 1 acadgild supergroup 20 2018-09-01 12:56 /user/acadgild/output/wordmedian/part-r-00000
```

## explanation:

A mapreduce program that counts the median length of the words in the input files.

**Output:** 

wordmedian for "acadgild" in sample.txt file.

```
The median is: 8

[acadgild@localhost mapreduce]$ hdfs dfs -cat /user/acadgild/output/wordmedian1/part-r-00000

18/09/01 13:05:13 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

8 1

You have new mail in /var/spool/mail/acadgild
```

### 2. WordMean:

#### **Command:**

hadoop jar hadoop-mapreduce-examples-2.6.5.jar wordmean /user/acadgild/input/sample.txt /user/acadgild/output/wordmean/

Screenshot:

```
| acadgild@localhost mapreduce|$ hadoop jar hadoop-mapreduce-examples-2.6.5.jar wordmean /user/acadgild/input/sample.txt /user/acadgild/output/wordmean / lacadgild@localhost mapreduce|$ hadoop jar hadoop-mapreduce-examples-2.6.5.jar wordmean /user/acadgild/input/sample.txt /user/acadgild/output/wordmean / lacadgild@localhost mapreduce|$ hadoop jar hadoop-mapreduce-examples-2.6.5.jar wordmean /user/acadgild/input/sample.txt /user/acadgild/output/wordmean / lacadgild@localhost mapreduce|$ hadoop jar hadoop-mapreduce|$ hadoop|$ hadoop
```

## **Explanation of Command:**

wordmean: A mapreduce program that counts the average length of the words in the input files.

## **Output:**

```
[acadgild@localhost mapreduce]$ hdfs dfs -cat /user/acadgild/output/wordmean/part-r-00000
18/09/01 13:15:31 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
count 1
length 8
You have new mail in /var/spool/mail/acadgild
```

#### 3. WordStandardDeviation

#### **Command:**

hadoop jar hadoop-mapreduce-examples-2.6.5.jar wordstandarddeviation /user/acadgild/input/sample.txt /user/acadgild/output/wordstandarddeviation/

```
[acadgild@localhost mapreduce]s hadoop jar hadoop.mapreduce-examples-2.6.5.jar wordstandarddeviation /user/acadgild/input/sample.txt /user/acadgild/output/wordstandarddeviation/
18/99/01 13:19:07 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
18/99/01 13:19:08 INFO client.RMProxy: Connecting to ResourceManager at localhost/127.0.0.1:8032
18/99/01 13:19:10 INFO input.FisteInputFormat: Total input paths to process: 1
18/99/01 13:19:10 INFO mapreduce.JobSubmitter: number of splits:1
18/99/01 13:19:10 INFO mapreduce.JobSubmitter: Submitting tokens for job: job 1535781261898 0004
18/99/01 13:19:10 INFO mapreduce.Job: The url to track the job: http://localhost:8088/proxy/application_1535781261898_0004
18/99/01 13:19:11 INFO mapreduce.Job: The url to track the job: http://localhost:80888/proxy/application_1535781261898_0004
18/99/01 13:19:11 INFO mapreduce.Job: Dob job 1535781261898_0004 running in uber mode: false
18/99/01 13:19:11 INFO mapreduce.Job: map 100% reduce 0%
18/99/01 13:19:21 INFO mapreduce.Job: map 100% reduce 0%
18/99/01 13:19:30 INFO mapreduce.Job: Dob job 1535781261898_0004 running in uber mode: false
18/99/01 13:19:30 INFO mapreduce.Job: Dob job 1535781261898_0004 running in uber mode: false
18/99/01 13:19:30 INFO mapreduce.Job: Dob job 1535781261898_0004 running in uber mode: false
18/99/01 13:19:30 INFO mapreduce.Job: Dob job 1535781261898_0004 running in uber mode: false
18/99/01 13:19:30 INFO mapreduce.Job: Dob job 1535781261898_0004 running in uber mode: false
18/99/01 13:19:30 INFO mapreduce.Job: Dob job 1535781261898_0004 running in uber mode: false
18/99/01 13:19:30 INFO mapreduce.Job: Dob job 1535781261898_0004 running in uber mode: false
18/99/01 13:19:30 INFO mapreduce.Job: Dob job 1535781261898_0004 running in uber mode: false
18/99/01 13:19:30 INFO mapreduce.Job: Dob job 1535781261898_0004 running in uber mode: false
18/99/01 13:19:30 INFO mapreduce.Job: Dob job 1535781261898_0004 running in uber mode: fal
```

# **Explanation of Command:**

wordstandarddeviation: A mapreduce program that counts the standard deviation of the length of the words in the input files.

## **Output:**

[acadgild@localhost mapreduce]\$ hdfs dfs -cat /user/acadgild/output/wordstandarddeviation/part-r-00000
18/09/01 13:21:01 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
count 1
length 8
square 64
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost mapreduce]\$