

TASK-1 Executing WordMean Program-

Input File-

```
[acadgild@localhost share]$ hadoop fs -cat /test.txt
18/07/08 23:07:55 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
This is a BDH BDH BDH Training Session
This is a BDH BDH BDH Training Session
This is a BDH BDH BDH Training Session
This is a BDH BDH BDH Training Session
This is a BDH BDH BDH Training Session
This is a BDH BDH BDH Training Session
This is a BDH BDH BDH Training Session
This is a BDH BDH BDH Training Session
This is a BDH BDH BDH Training Session
This is a BDH BDH BDH Training SessionYou have new mail in /var/spool/mail/acadgild
[acadgild@localhost share]$
```

The Execution-

This command is being used to execute the jar containing **wordmean** module which is taking **test.txt** as input and printing the counts the average length of the words in the input files to the location **/wordmean.**

```
[acadmild@localhost share]$ hadoop jar /home/acadmild/install/hadoop/hadoop-2.6.5/share/hadoop/mapreduce/hadoop-mapreduce-examples-2.6.5.jar wordmean /test.txt /wordmean
18/07/08 23:12:02 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
18/07/08 23:12:07 INFO client.RMPProxy: Connecting to ResourceManager at localhost/127.0.0.1:8032
18/07/08 23:12:14 INFO input.FileInputFormat: Total input paths to process : 1
18/07/08 23:12:15 INFO mapreduce.JobSubmitter: number of splits:1
18/07/08 23:12:16 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_1531070743087_0002
18/07/08 23:12:18 INFO impl.YarnClientImpl: Submitted application application_1531070743087_0002
18/07/08 23:12:18 INFO mapreduce.Job: The url to track the job: http://localhost:8088/proxy/application_1531070743087_0002/
18/07/08 23:12:18 INFO mapreduce.Job: Running job: job_1531070743087_0002
```

```

WRONG_MAP=0
WRONG_REDUCE=0
File Input Format Counters
    Bytes Read=358
File Output Format Counters
    Bytes Written=20
The mean is: 3.875
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost share]$
```

Below is the result-

```
[acadgild@localhost share]$ hadoop fs -cat /wordmean/*
18/07/08 23:16:33 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
count 72
length 279
[acadgild@localhost share]$
```

TASK-2- Executing WordMedian Program-

Input File-

```
[acadgild@localhost share]$ hadoop fs -cat /test.txt
18/07/08 23:07:55 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
This is a BDH BDH BDH Training Session
This is a BDH BDH BDH Training Session
This is a BDH BDH BDH Training Session
This is a BDH BDH BDH Training Session
This is a BDH BDH BDH Training Session
This is a BDH BDH BDH Training Session
This is a BDH BDH BDH Training Session
This is a BDH BDH BDH Training Session
This is a BDH BDH BDH Training Session
This is a BDH BDH BDH Training SessionYou have new mail in /var/spool/mail/acadgild
[acadgild@localhost share]$
```

The execution-

This command is being used to execute the jar containing **wordmedian** module which is taking **test.txt** as input and printing the median length of the words in the input files to the location **/assignment-3**.

```
[acadgild@localhost share]$ hadoop jar /home/acadgild/install/hadoop/hadoop-2.6.5/share/hadoop/mapreduce/hadoop-mapreduce-examples-2.6.5.jar wordmedian /test.txt /assignment-3
18/07/08 23:02:03 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
18/07/08 23:02:11 INFO client.RMPProxy: Connecting to ResourceManager at localhost/127.0.0.1:8032
18/07/08 23:02:18 WARN mapreduce.JobResourceUploader: Hadoop command-line option parsing not performed. Implement the Tool interface and execute your application with ToolRunner to remedy this.
18/07/08 23:02:23 INFO input.FileInputFormat: Total input paths to process : 1
18/07/08 23:02:24 INFO mapreduce.JobSubmitter: number of splits:1
18/07/08 23:02:25 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_1531070743087_0001
18/07/08 23:02:31 INFO impl.YarnClientImpl: Submitted application application_1531070743087_0001
18/07/08 23:02:32 INFO mapreduce.Job: The url to track the job: http://localhost:8088/proxy/application_1531070743087_0001/
18/07/08 23:02:32 INFO mapreduce.Job: Running job: job_1531070743087_0001
```

```
WRONG_LENGTH=0
WRONG_MAP=0
WRONG_REDUCE=0
File Input Format Counters
Bytes Read=358
File Output Format Counters
Bytes Written=25
The median is: 3
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost share]$
```

Output- Below is the result-

```
[acadgild@localhost share]$ hadoop fs -cat /assignment-3/*
18/07/08 23:06:54 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
1      9
2      9
3     27
4      9
7      9
8      9
[acadgild@localhost share]$
```

TASK-3-

Input file-

```
[acadgild@localhost share]$ hadoop fs -cat /test.txt
18/07/08 23:07:55 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
This is a BDH BDH BDH Training Session
This is a BDH BDH BDH Training Session
This is a BDH BDH BDH Training Session
This is a BDH BDH BDH Training Session
This is a BDH BDH BDH Training Session
This is a BDH BDH BDH Training Session
This is a BDH BDH BDH Training Session
This is a BDH BDH BDH Training Session
This is a BDH BDH BDH Training Session
This is a BDH BDH BDH Training SessionYou have new mail in /var/spool/mail/acadgild
[acadgild@localhost share]$
```

The Execution-

This command is being used to execute the jar containing **wordstandarddeviation** module which is taking **test.txt** as input and counts the standard deviation of the length of the words in the input files. to the location **/deviation**.

```
[acadgild@localhost share]$ hadoop jar /home/acadgild/install/hadoop/hadoop-2.6.5/share/hadoop/mapreduce/hadoop-mapreduce-examples-2.6.5.jar wordstandarddeviation /test.txt /deviation
18/07/08 23:19:13 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
18/07/08 23:19:19 INFO client.RMPProxy: Connecting to ResourceManager at localhost/127.0.0.1:8032
18/07/08 23:19:26 INFO input.FileInputFormat: Total input paths to process : 1
18/07/08 23:19:27 INFO mapreduce.JobSubmitter: number of splits:1
18/07/08 23:19:28 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_1531070743087_0003
18/07/08 23:19:30 INFO impl.YarnClientImpl: Submitted application application_1531070743087_0003
18/07/08 23:19:30 INFO mapreduce.Job: The url to track the job: http://localhost:8088/proxy/application_1531070743087_0003/
18/07/08 23:19:30 INFO mapreduce.Job: Running job: job_1531070743087_0003
```

```
        WRONG_MAP=0
        WRONG_REDUCE=0
    File Input Format Counters
        Bytes Read=358
    File Output Format Counters
        Bytes Written=32
The standard deviation is: 2.2603926650031405
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost share]$
```

Below is the result-

```
[acadgild@localhost share]$ hadoop fs -cat /deviation/*
18/07/08 23:22:18 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
count    72
length   279
square   1449
[acadgild@localhost share]$
```