

Task 1:

Execute (i) **WordMedian** , (ii) **WordMean** , (iii) **WordStandardDeviation** programs using **hadoop-mapreduce-examples-2.9.0.jar** file present in your **AcadGild VM**.

(i) **COMMAND:-**

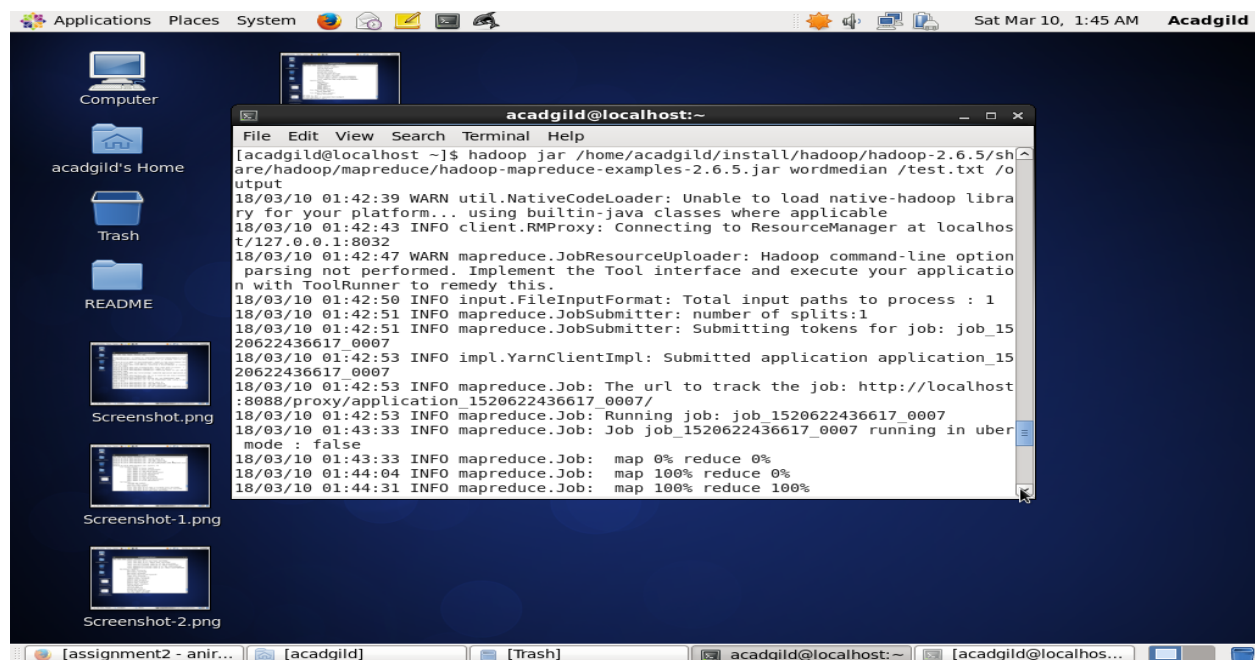
```
hadoop jar /home/acadgild/install/hadoop/hadoop-2.6.5/share/hadoop/mapreduce/hadoop-mapreduce-examples-2.6.5.jar wordmedian /test.txt /output
```

note:-At Acadgild VM, Here I have **hadoop-mapreduce-examples-2.6.5.jar** instead of **hadoop-mapreduce-examples-2.9.0.jar** .

EXPLANATION:-

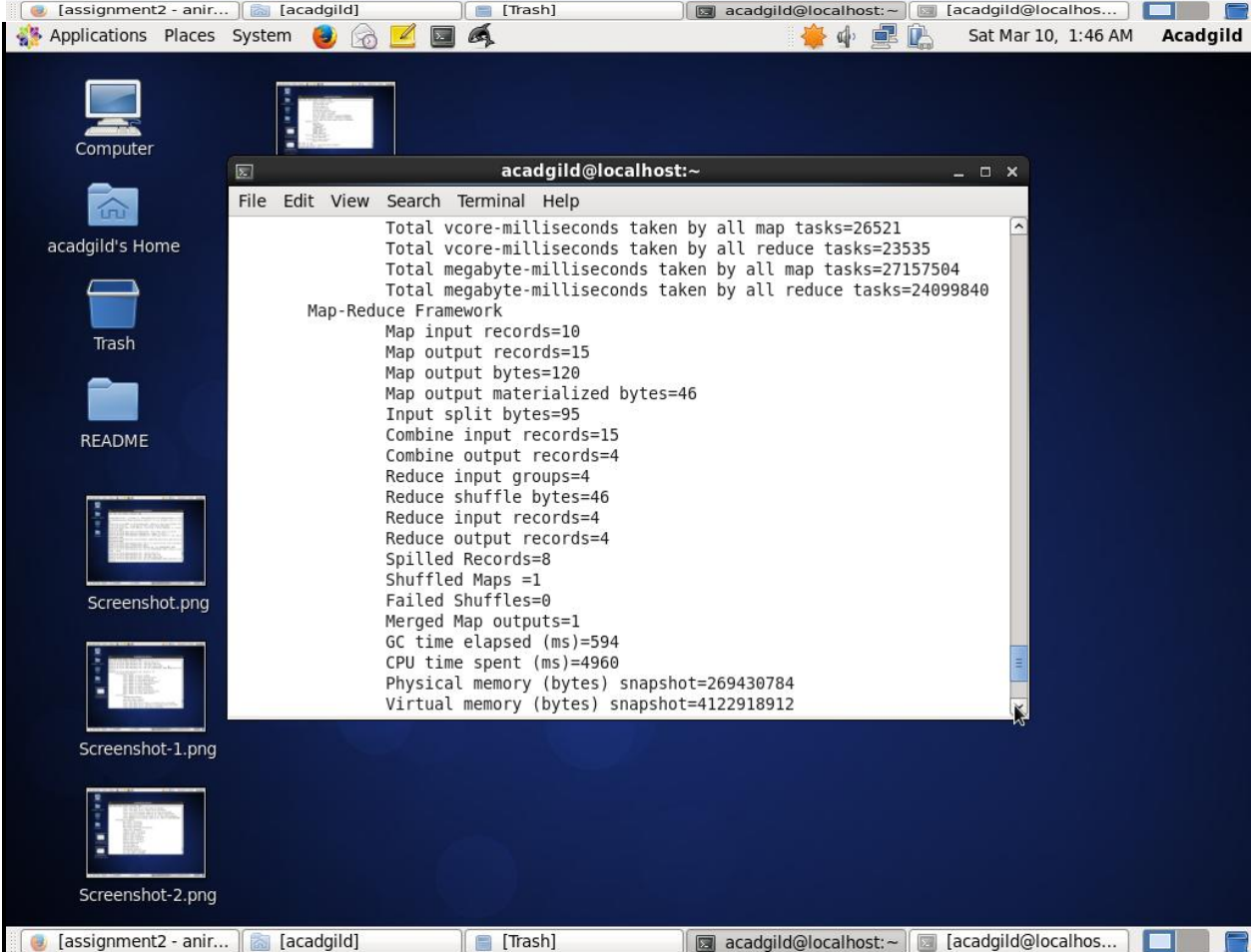
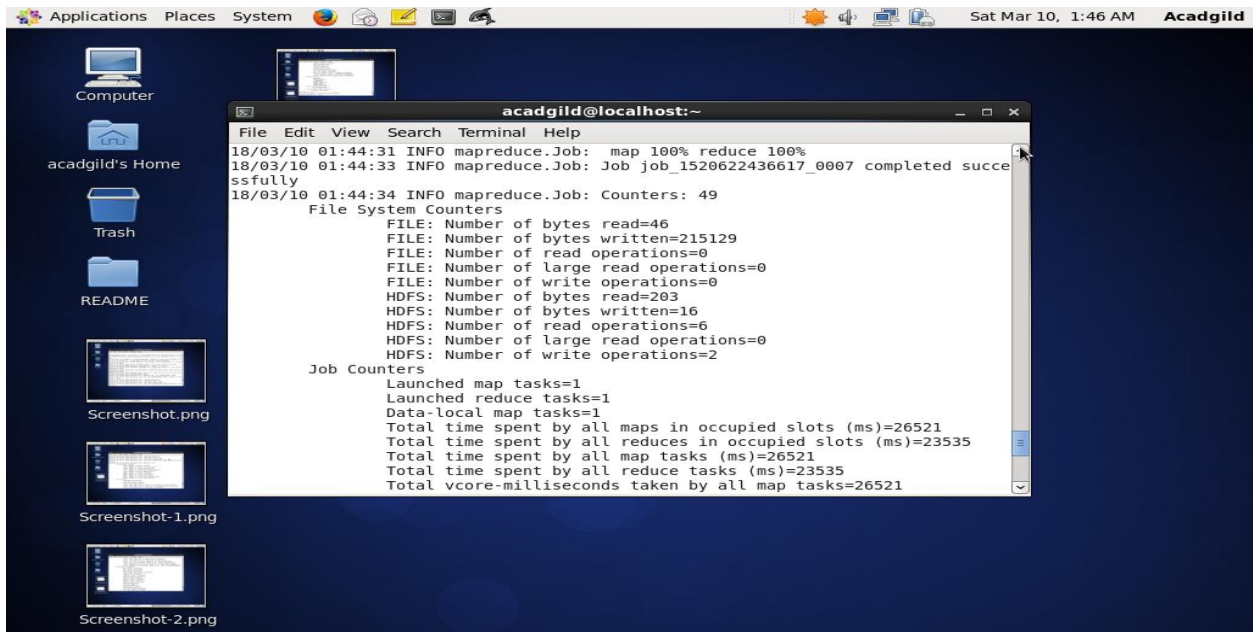
wordmedian:- the map/reduce program that counts the median length of the words in the input files.

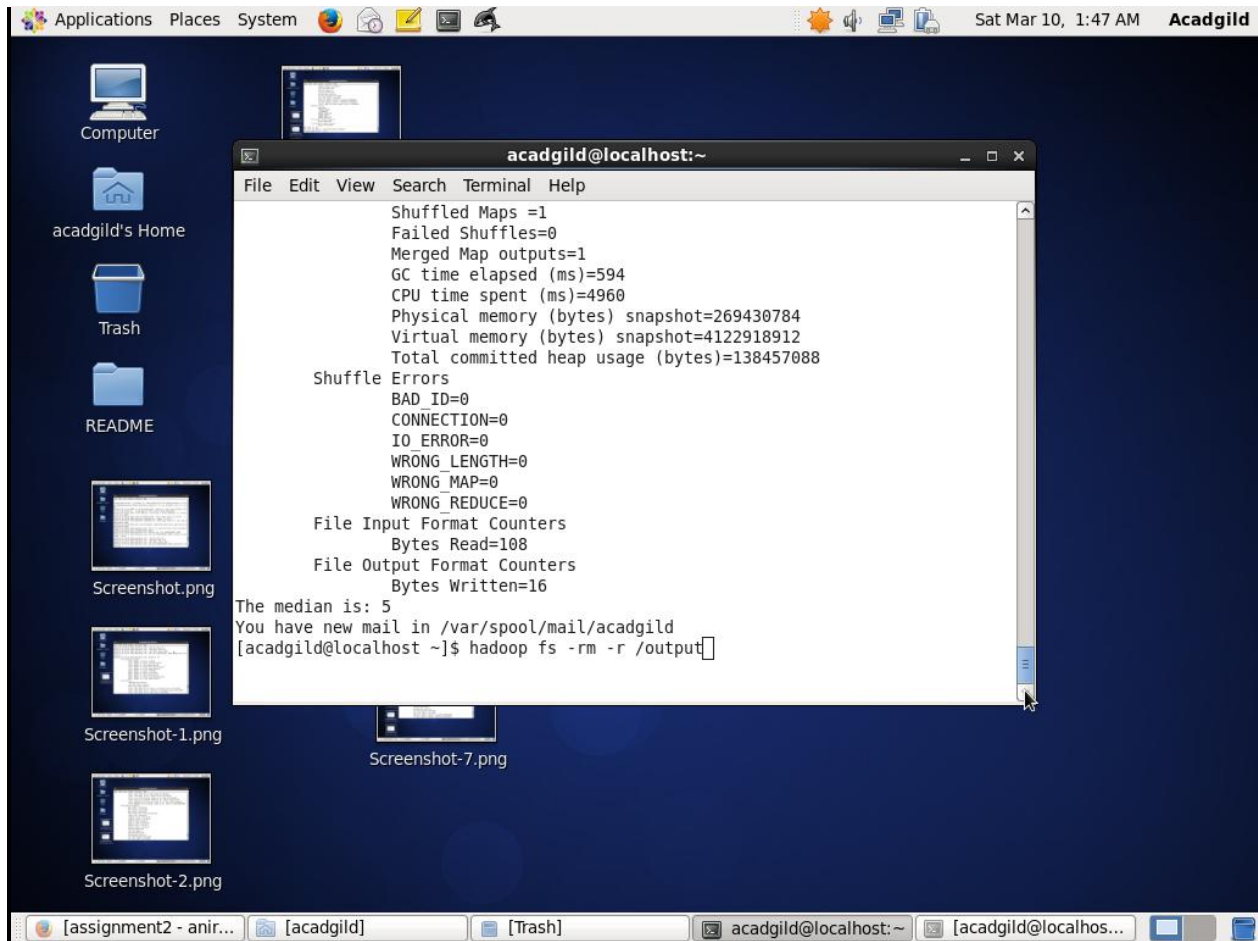
OUTPUT:-



The screenshot shows a terminal window titled 'acadgild@localhost:~' with the following output:

```
[acadgild@localhost ~]$ hadoop jar /home/acadgild/install/hadoop/hadoop-2.6.5/share/hadoop/mapreduce/hadoop-mapreduce-examples-2.6.5.jar wordmedian /test.txt /output
18/03/10 01:42:39 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
18/03/10 01:42:43 INFO client.RMProxy: Connecting to ResourceManager at localhost/127.0.0.1:8032
18/03/10 01:42:47 WARN mapreduce.JobResourceUploader: Hadoop command-line option parsing not performed. Implement the Tool interface and execute your application with ToolRunner to remedy this.
18/03/10 01:42:50 INFO input.FileInputFormat: Total input paths to process : 1
18/03/10 01:42:51 INFO mapreduce.JobSubmitter: number of splits:1
18/03/10 01:42:51 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_1520622436617_0007
18/03/10 01:42:53 INFO impl.YarnClientImpl: Submitted application application_1520622436617_0007
18/03/10 01:42:53 INFO mapreduce.Job: The url to track the job: http://localhost:8088/proxy/application_1520622436617_0007/
18/03/10 01:42:53 INFO mapreduce.Job: Running job: job_1520622436617_0007
18/03/10 01:43:33 INFO mapreduce.Job: Job job_1520622436617_0007 running in uber mode : false
18/03/10 01:43:33 INFO mapreduce.Job: map 0% reduce 0%
18/03/10 01:44:04 INFO mapreduce.Job: map 100% reduce 0%
18/03/10 01:44:31 INFO mapreduce.Job: map 100% reduce 100%
```





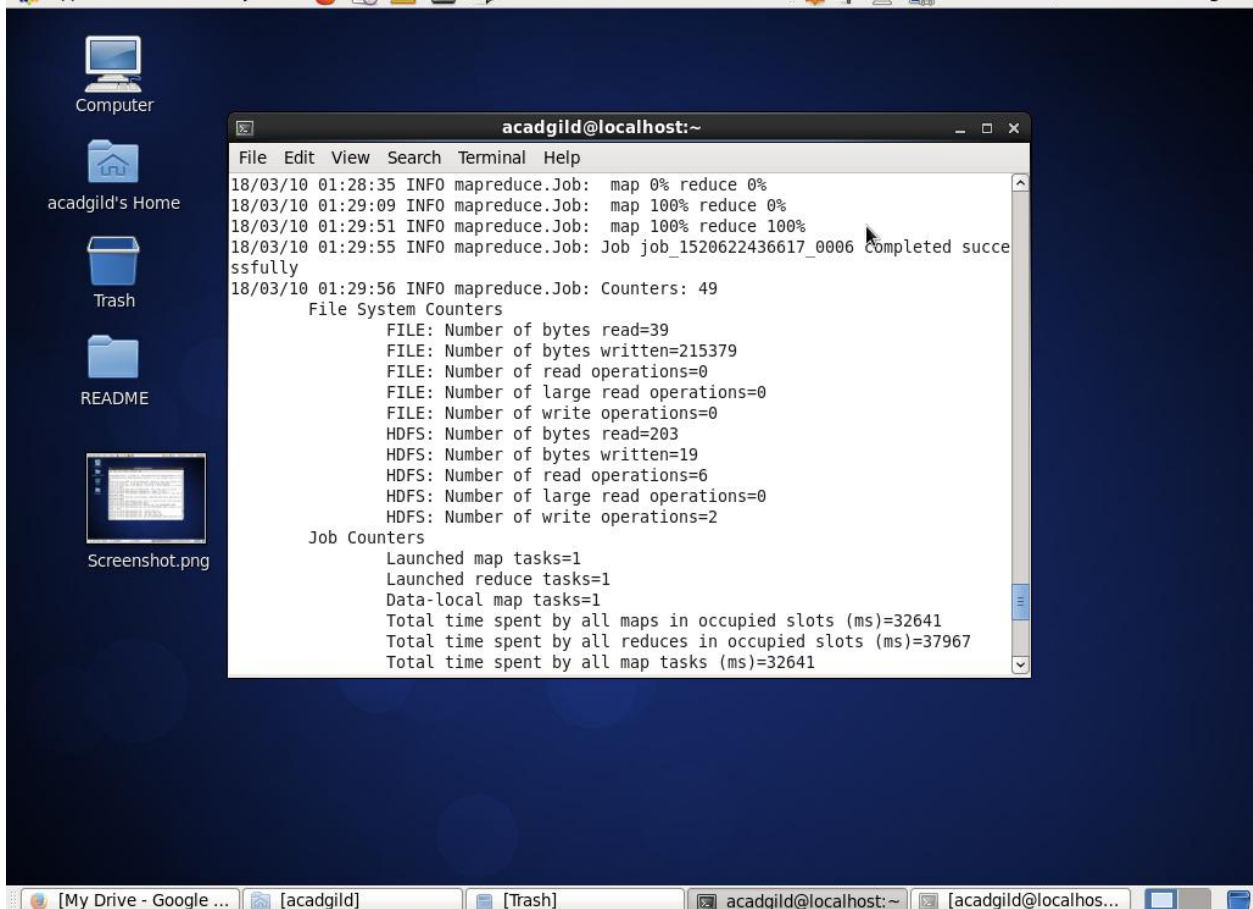
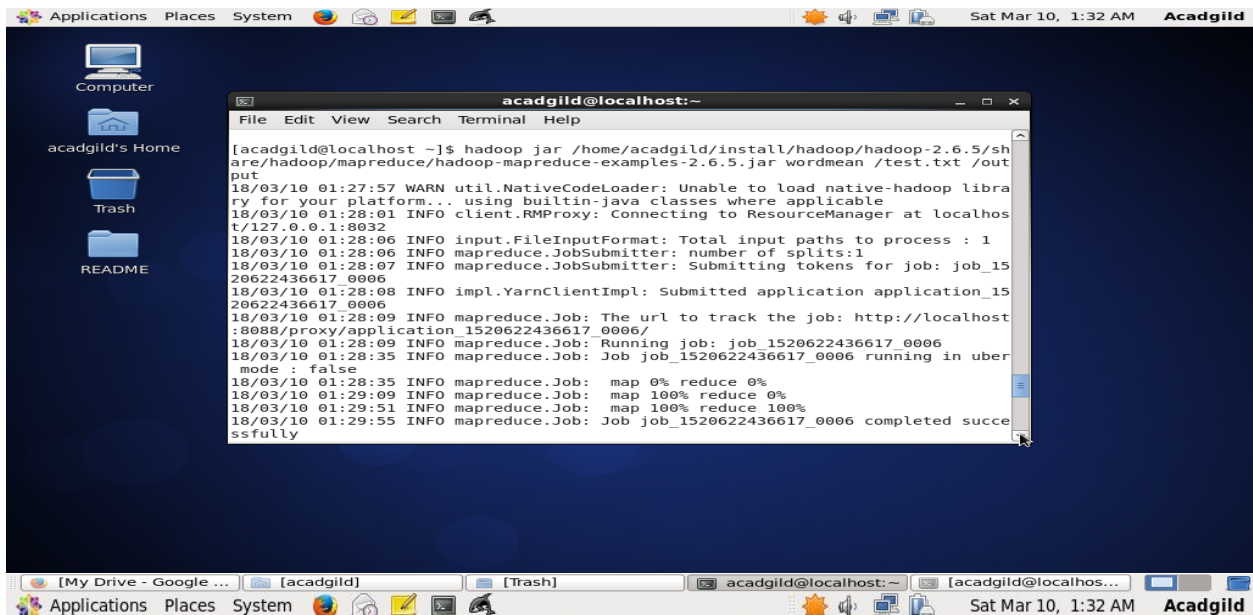
(ii) COMMAND:-

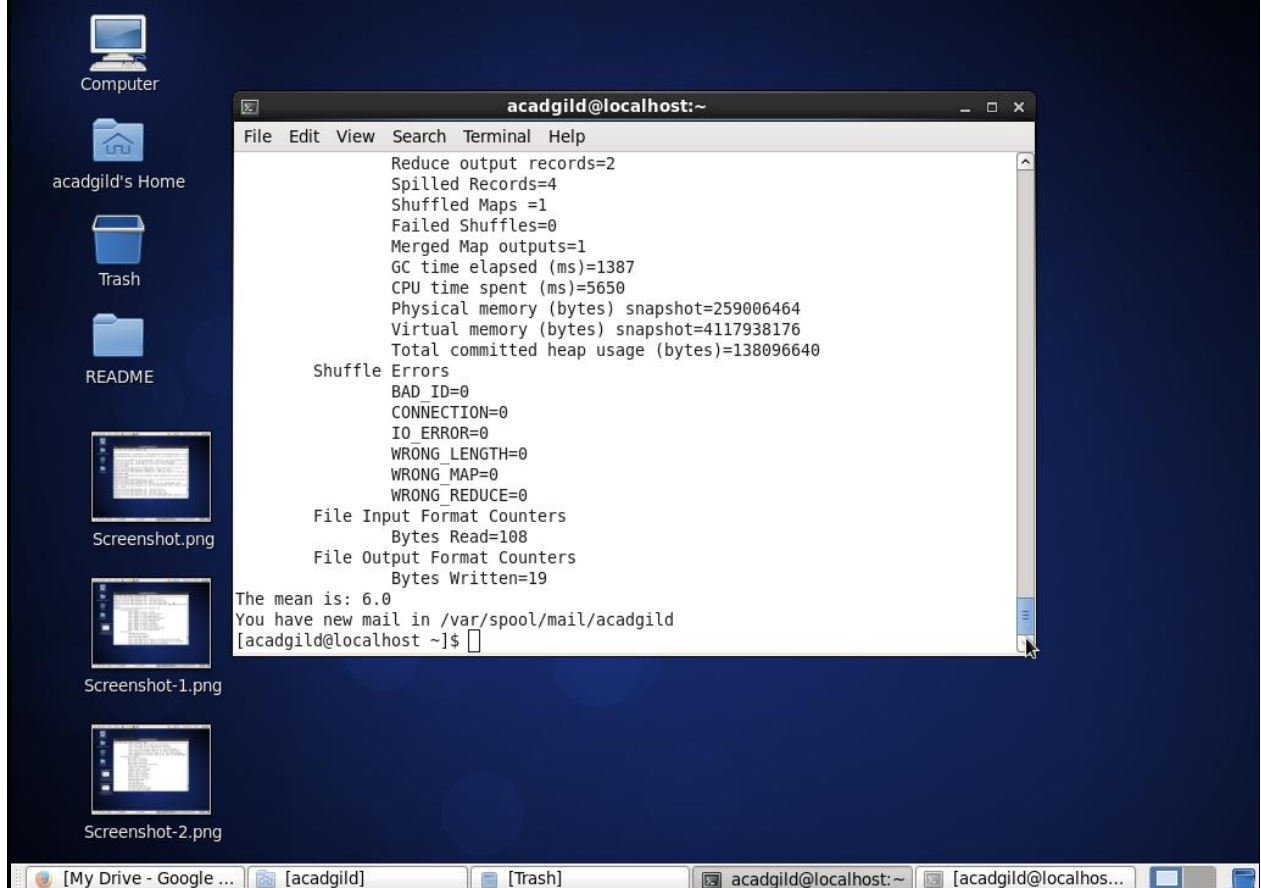
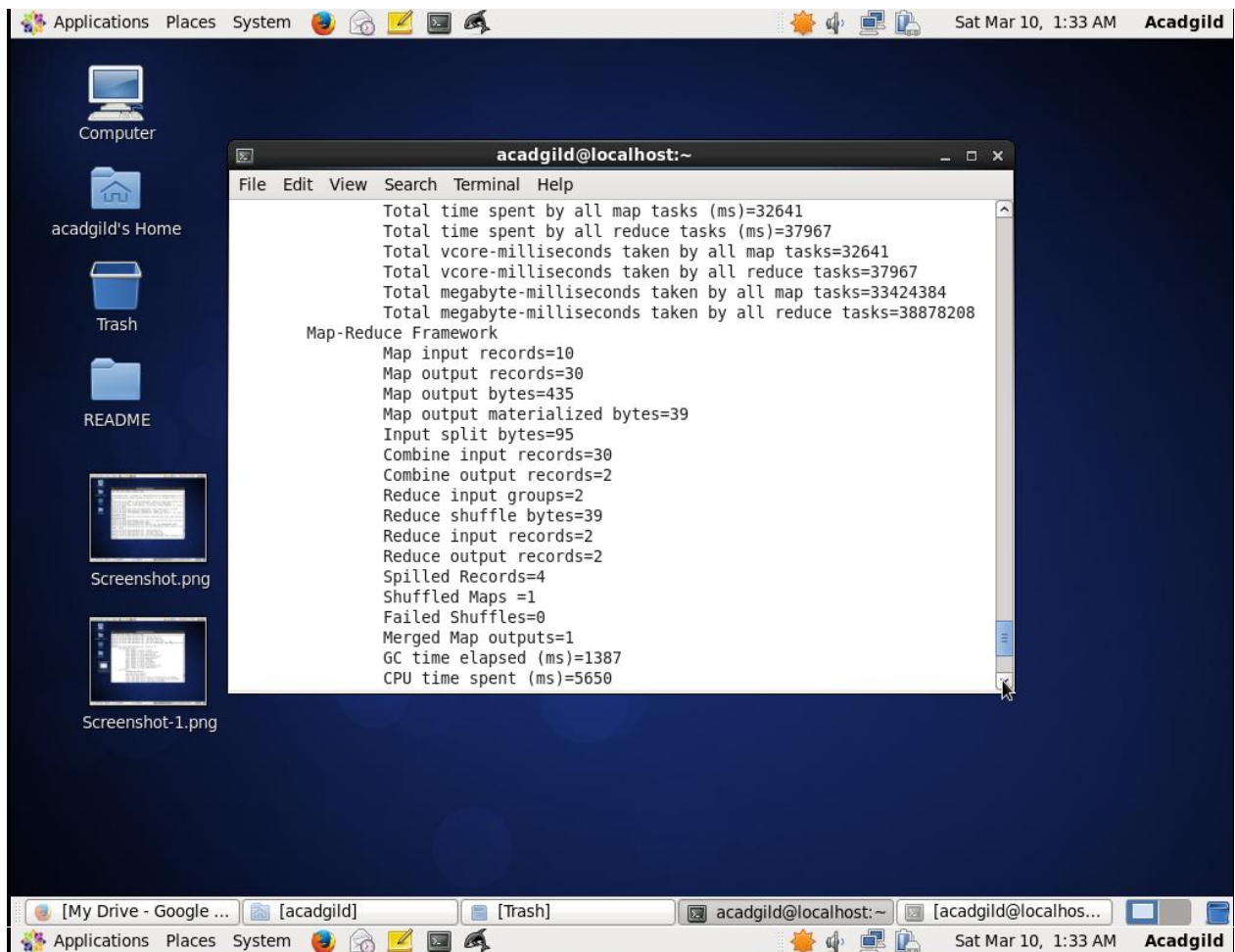
```
hadoop jar /home/acadmild/install/hadoop/hadoop-2.6.5/share/hadoop/mapreduce/hadoop-mapreduce-examples-2.6.5.jar wordmean /test.txt /output
```

EXPLANATION:-

wordmean:- the map/reduce program that counts the average length of the words in the input files.

OUTPUT:-





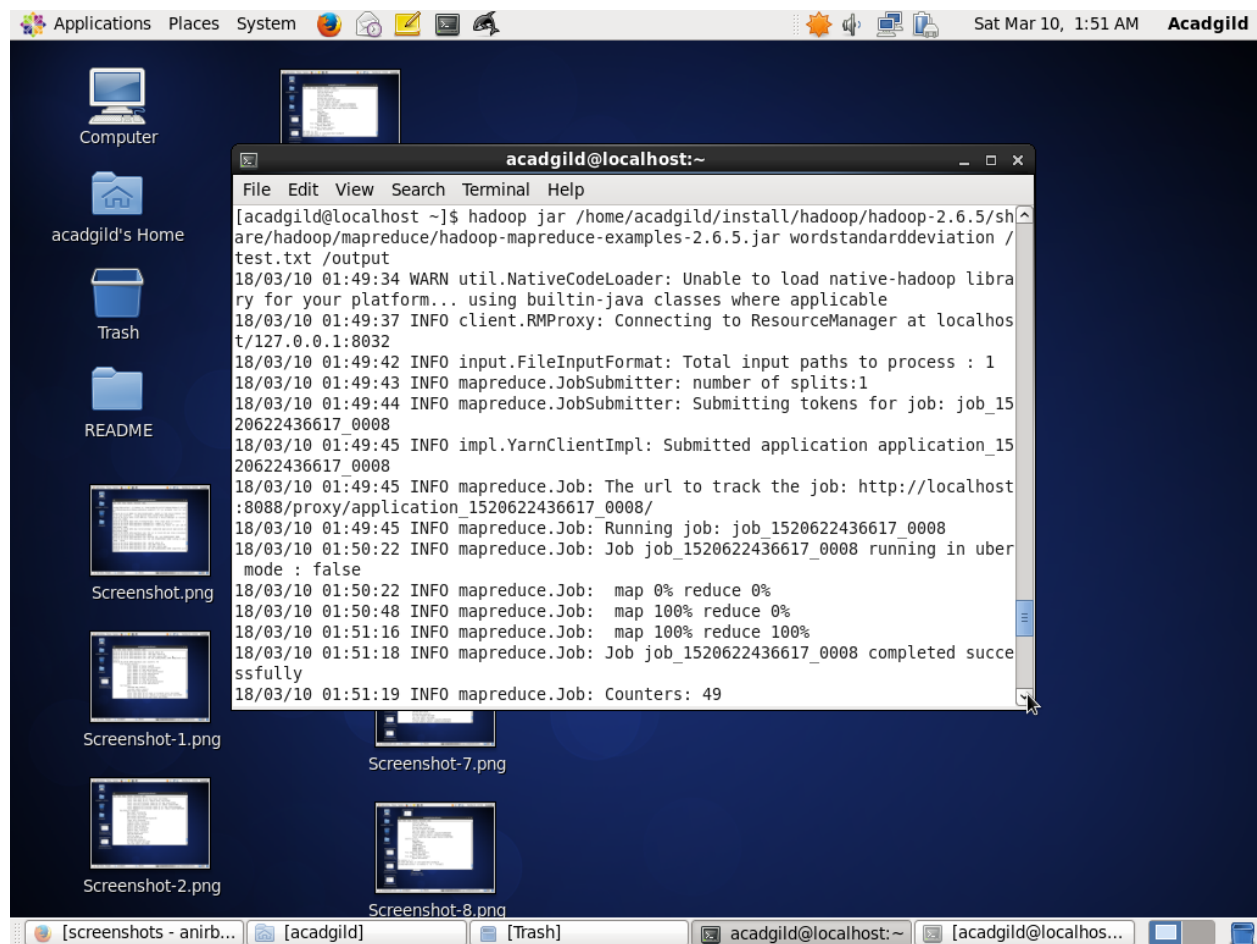
(iii) COMMAND:-

```
hadoop jar /home/acadgild/install/hadoop/hadoop-2.6.5/share/hadoop/mapreduce/hadoop-mapreduce-examples-2.6.5.jar wordstandarddeviation /test.txt /output
```

EXPLANATION:-

wordstandarddeviation:- the map/reduce program that counts the standard deviation of the length of the words in the input files.

OUTPUT:-



The screenshot shows a Linux desktop with a dark blue background. On the left, there is a sidebar with icons for 'Computer', 'acadgild's Home', 'Trash', and 'README'. Several screenshot files are visible on the desktop: 'Screenshot.png', 'Screenshot-1.png', 'Screenshot-2.png', 'Screenshot-7.png', and 'Screenshot-8.png'. A terminal window titled 'acadgild@localhost:~' is open in the center, displaying the output of the Hadoop command. The output shows the job submission and completion details, including the URL to track the job and the final counters.

```
File Edit View Search Terminal Help
[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 /output
18/03/10 01:49:34 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
18/03/10 01:49:37 INFO client.RMProxy: Connecting to ResourceManager at localhost/127.0.0.1:8032
18/03/10 01:49:42 INFO input.FileInputFormat: Total input paths to process : 1
18/03/10 01:49:43 INFO mapreduce.JobSubmitter: number of splits:1
18/03/10 01:49:44 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_1520622436617_0008
18/03/10 01:49:45 INFO impl.YarnClientImpl: Submitted application application_1520622436617_0008
18/03/10 01:49:45 INFO mapreduce.Job: The url to track the job: http://localhost:8088/proxy/application_1520622436617_0008/
18/03/10 01:49:45 INFO mapreduce.Job: Running job: job_1520622436617_0008
18/03/10 01:50:22 INFO mapreduce.Job: Job job_1520622436617_0008 running in uber mode : false
18/03/10 01:50:22 INFO mapreduce.Job: map 0% reduce 0%
18/03/10 01:50:48 INFO mapreduce.Job: map 100% reduce 0%
18/03/10 01:51:16 INFO mapreduce.Job: map 100% reduce 100%
18/03/10 01:51:18 INFO mapreduce.Job: Job job_1520622436617_0008 completed successfully
18/03/10 01:51:19 INFO mapreduce.Job: Counters: 49
```

