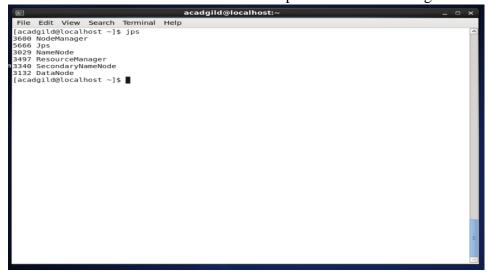
Task 1:

1. Start Hadoop single node on AcadGild VM (The command is start-all.sh)

```
File Edit View Search Terminal Help

[acadgild@localhost -]$ start-all.sh
This script is Deprecated. Instead use start-dfs.sh and start-yarn.sh
18/06/18 09:45:00 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platf orm... using builtin-java classes where applicable
Starting namenodes on [localhost]
llocalhost: namenode running as process 3029. Stop it first.
llocalhost: datanode running as process 3132. Stop it first.
Starting secondary namenodes [0.0.0]
0.0.0.0: secondarynamenodes [0.0.0]
0.0.0.0: secondarynamenode running as process 3340. Stop it first.
18/06/18 00:45:11 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platf orm... using builtin-java classes where applicable
starting yarn daemons
resourcemanager running as process 3497. Stop it first.
llocalhost: nodemanager running as process 3600. Stop it first.
[acadgild@localhost -]$
```

2. Run a JPS command to see if all the Hadoop daemons are running.

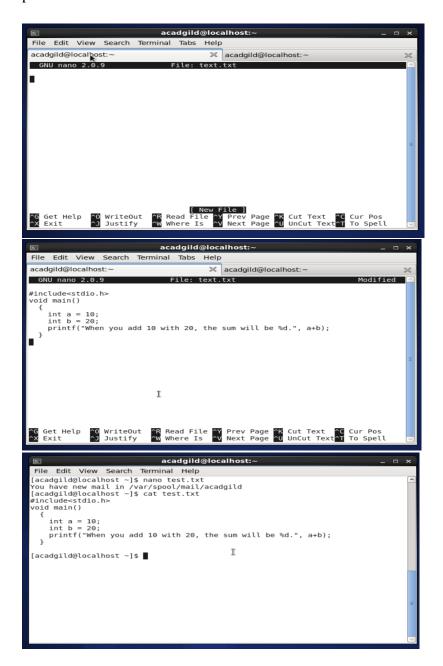


3. Run a couple of Unix commands like pwd, ls -ls etc.

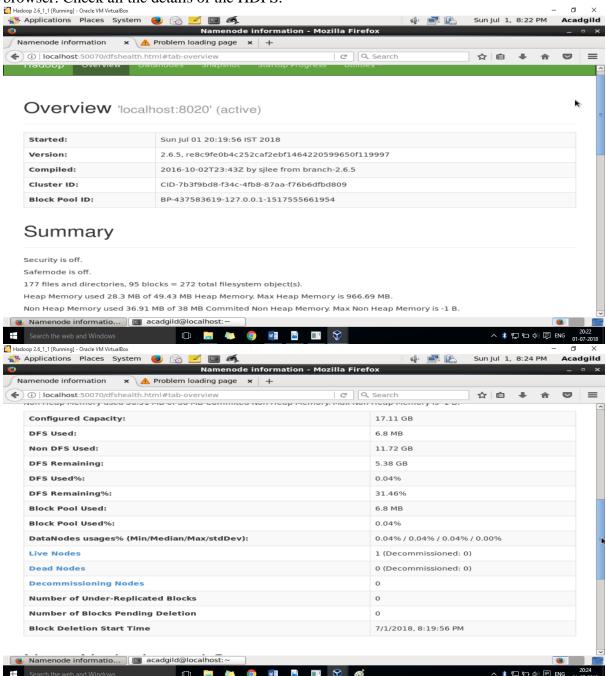
```
File Edit View Search Terminal Help

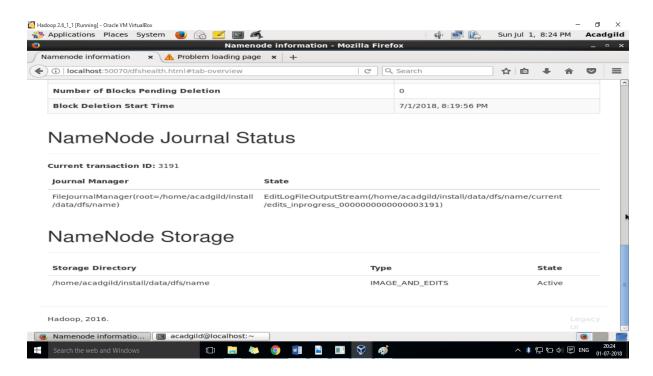
[acadgild@localhost -]$ pwd
/home/acadgild
[acadgild@localhost -]$ ls -l
total 44
-rw-rw-r--. 1 acadgild acadgild 4096 Feb 2 12:51 Desktop
drwxr-xr-x. 2 acadgild acadgild 4096 Feb 2 12:52 Documents
drwxr-xr-x. 2 acadgild acadgild 4096 Feb 2 12:52 Documents
drwxr-xr-x. 2 acadgild acadgild 4096 Feb 3 14:24 Downloads
drwxrwxr-x. 3 acadgild acadgild 4096 Feb 9 18:06 install
drwxr-xr-x. 2 acadgild acadgild 4096 Feb 9 18:06 install
drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Music
drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Public
drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Videos
[acadgild@localhost -]$ ls -ltr
total 44
drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Public
drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Public
drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Public
drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Public
drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Public
drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Public
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drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Videos
drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Videos
drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Public
drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Public
drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Decenorists
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drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Decenorists
drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Decenorists
drwxr-x
```

4. Create a file from the terminal using nano editor (for example nano test.txt) and put some content in it. Cat it to see if the content is saved.



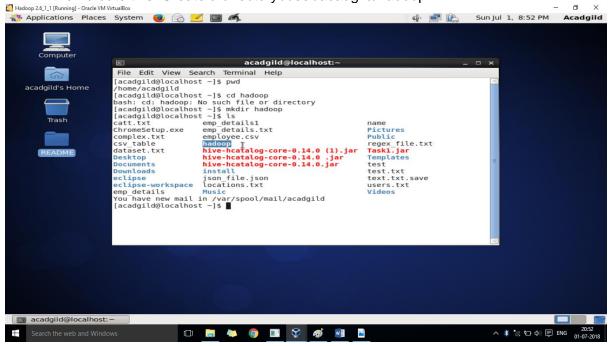
5. Open the hdfs web page from the browser by typing localhost:50070 in the browser. Check all the details of the HDFS.



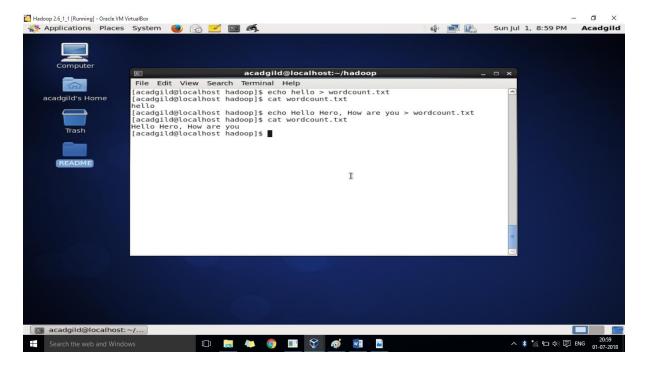


Task 2:

1. Check whether /user/acadgild directory exists or not in the HDFS. If it doesn't exist, then create this. Create a directory /user/acadgild/hadoop.



2. Create a file in HDFS under directory /user/acadgild/hadoop, with name word-count.txt. Whatever we type on screen should get appended to the file. Try to type (on screen) few lines from any online article or textbook.

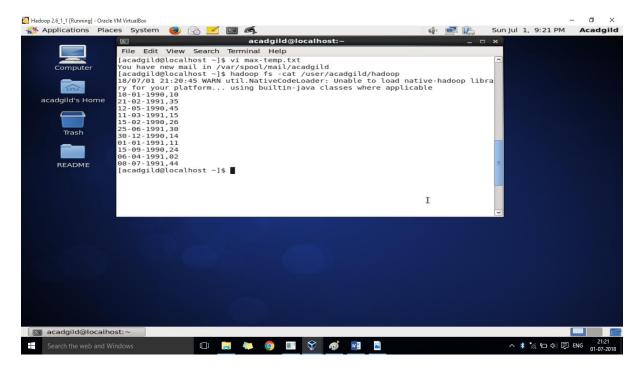


3. Create a file max-temp.txt in local FS. Put some 10-15 records of date and temperature example: dd-mm-yyyy,temperature

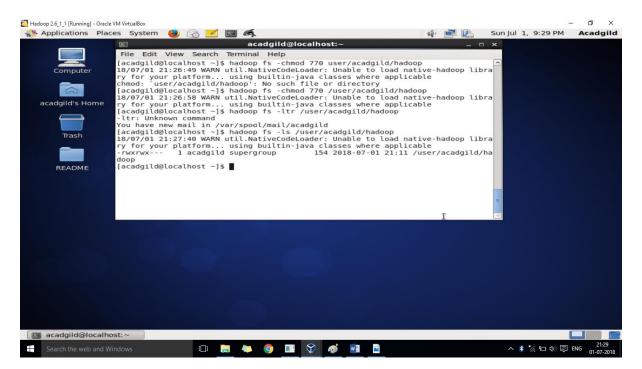
Example:

10-01-1990,10 10-02-1991,20

Move this file to HDFS at /user/acadgild/hadoop.



4. Change the permission of the file /user/acadgild/hadoop/max-temp.txt, such that only the owner and the group members have full control over the file. Others do not have any control over it.



Task 3:

1. Execute **WordMedian**, **WordMean**, **WordStandardDeviation** programs using hadoop-mapreduce-examples-2.9.0.jar file present in your AcadGild VM.

```
incellabett, starting notemanager, logging to //new/acadsila/install/satopy/bedopp-2.6.5/logs/yare-acadsilaton-to-localdomain.out
[acadsildic_acads) = 18 hadop-agroundere-examples-2.6.5.3r voctoman /voctomut.txt /unjtuf.file!

18/70/98 20129:48 MANN Util.SativeCodelousder: Umable to loud native-hadopilbrary for your platform... using builtin-java classes where applicable

18/70/98 20129:48 INFO Many Electrosister: Umable to loud native-hadopilbrary for your platform... using builtin-java classes where applicable

18/70/98 20129:46 INFO magreduce.Jobs.Manitter: mabler of epits:1

18/70/98 20129:46 INFO magreduce.Jobs.Manitter: mabler of epits:1

18/70/98 20129:46 INFO magreduce.Jobs.Manitter: mables of soi: job_1301018/07/99 20129:40 INFO magreduce.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.Jobs.Manitter.
```

```
Total voor-milliseconds taken by all ago taskes-2790
Total snapstyte-milliseconds caken by all reduce taskes-5810
Total snapstyte-milliseconds taken by all reduce taskes-688720
Map-tenduce Framework
Map injur records-3
Map injur records-3
Map injur records-3
Map output records-3
Map output second-32
Map output materialized bytes-39
Injur spil tytes-100
Combine injur records-3
Map output materialized bytes-39
Injur spil tytes-100
Combine injur records-3
Map output materialized bytes-39
Reduce injur groups-2
Reduce injur groups-3
Reduce injury groups-3
Reduce
```

```
Total time spent by all maps in occupied slots (mai=513)
Total time spent by all reduces in occupied slots (mai=513)
Total time spent by all map tasks (mai=513)
Total voor-milliseconds taske by all reduce tasks=5131
Total voor-milliseconds taske by all reduce tasks=5131
Total voor-milliseconds taske by all reduce tasks=516512
Map total maps to tasks taske by all reduce tasks=516512
Map total reduces framewick
Map couptr seconds=6
Map output secon
```

```
at org.agache.hadoop.util.RunAr.main(RunAr.java:136)
Too look ose all in VarYopool/gail/acadgida
Too look ose
```

```
Learn-local map taskes!

Data-local map taskes!

Total ties spent by all maps in occupied slots (ms)-4837

Total ties spent by all maps in occupied slots (ms)-4837

Total ties spent by all map tasks (ms)-4839

Total spenty-specialliseconds taken by all map tasks-4839

Total spenty-specialliseconds taken by all map tasks-48398

Total spenty-specialliseconds taken by all reduce tasks-580000

Map-Reduce Framework

Map output bytes=264

Map output bytes=264
```