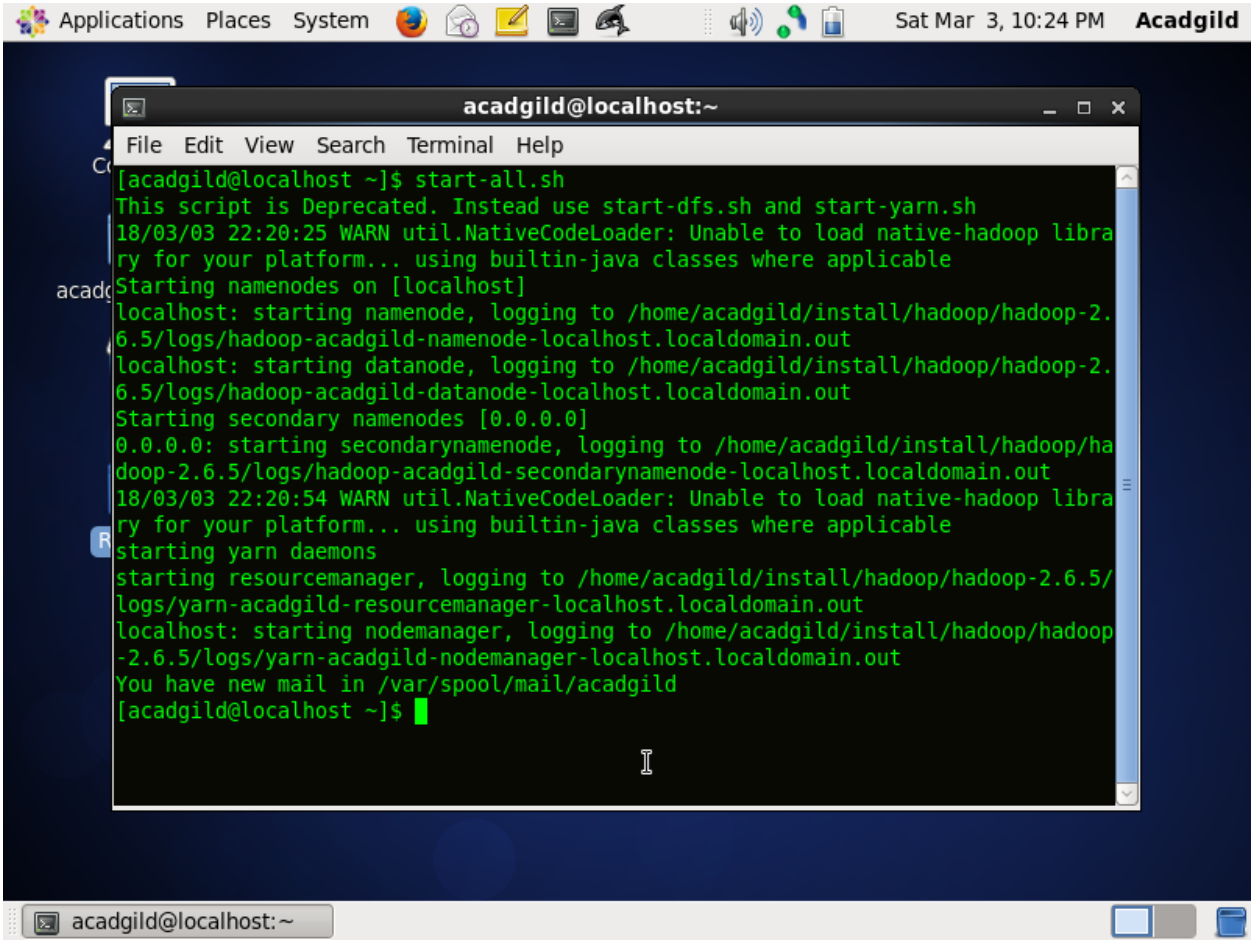
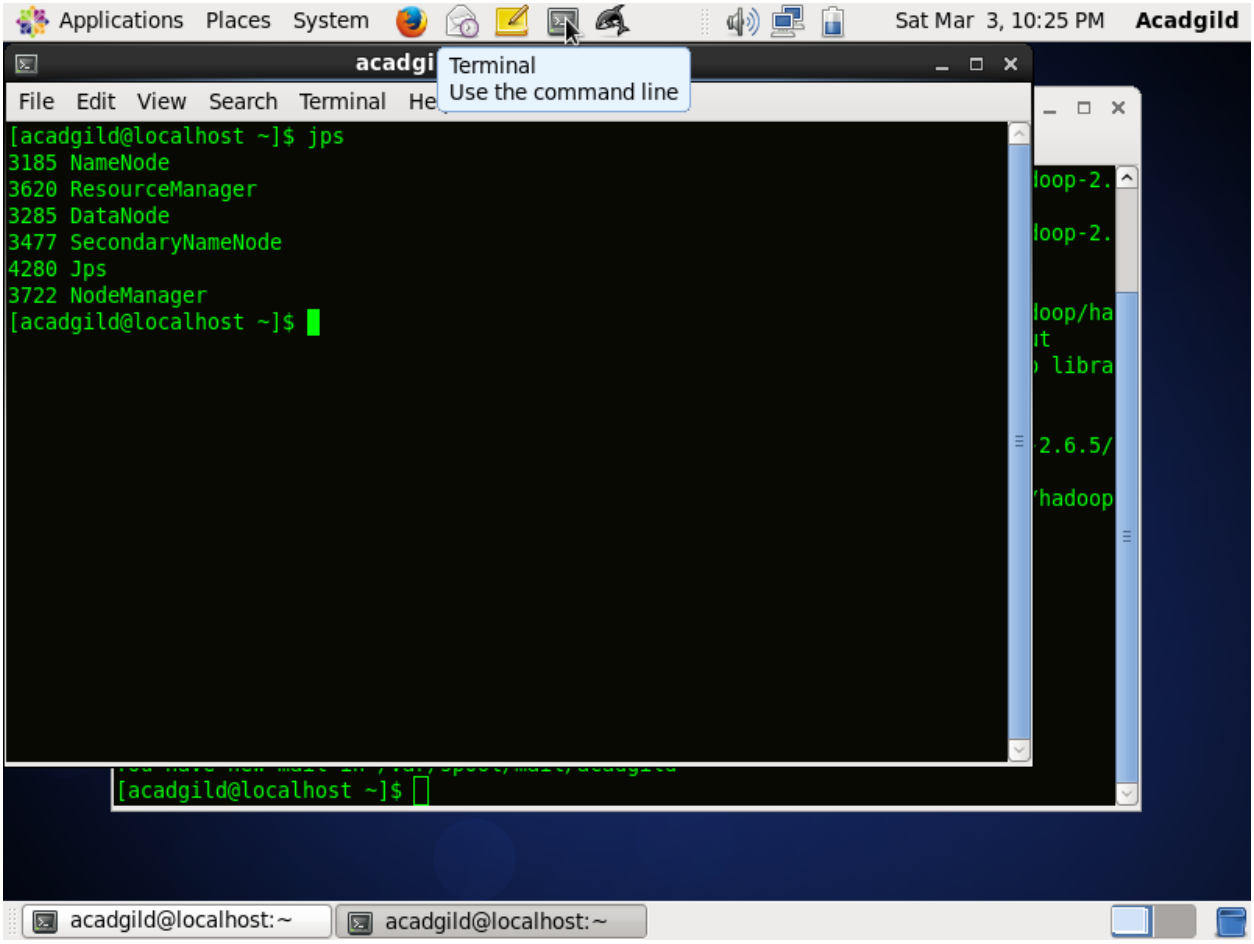
1) To start the Hadoop single node cluster on Acadgild VM, the command is **start-all.sh**, which will start the all the daemons necessary to run Hadoop.

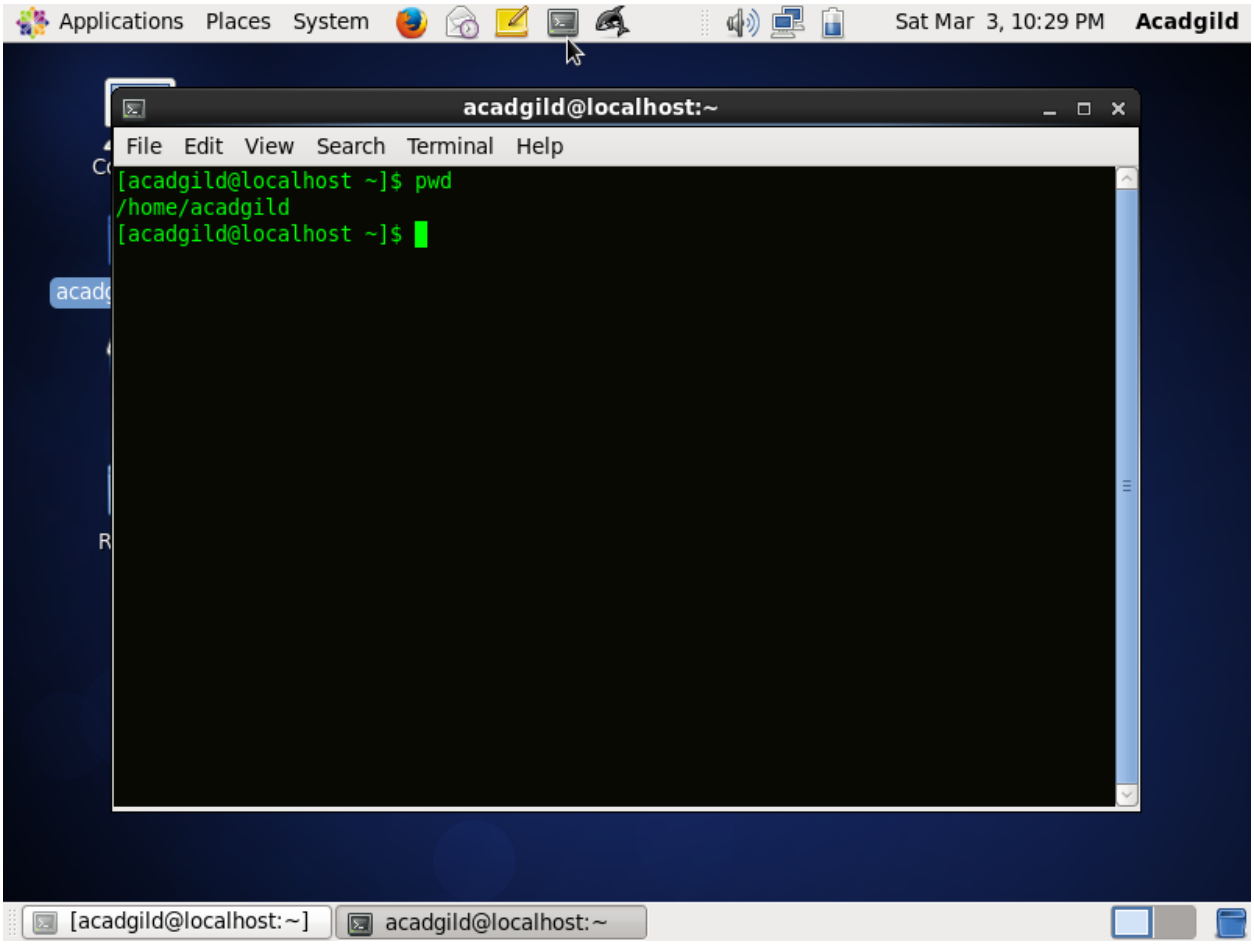


2) Run **jps** command, to view the daemons running. As one can see that the daemons namenode, secondary namenode, datanode, resource manager and nodemanager are running.

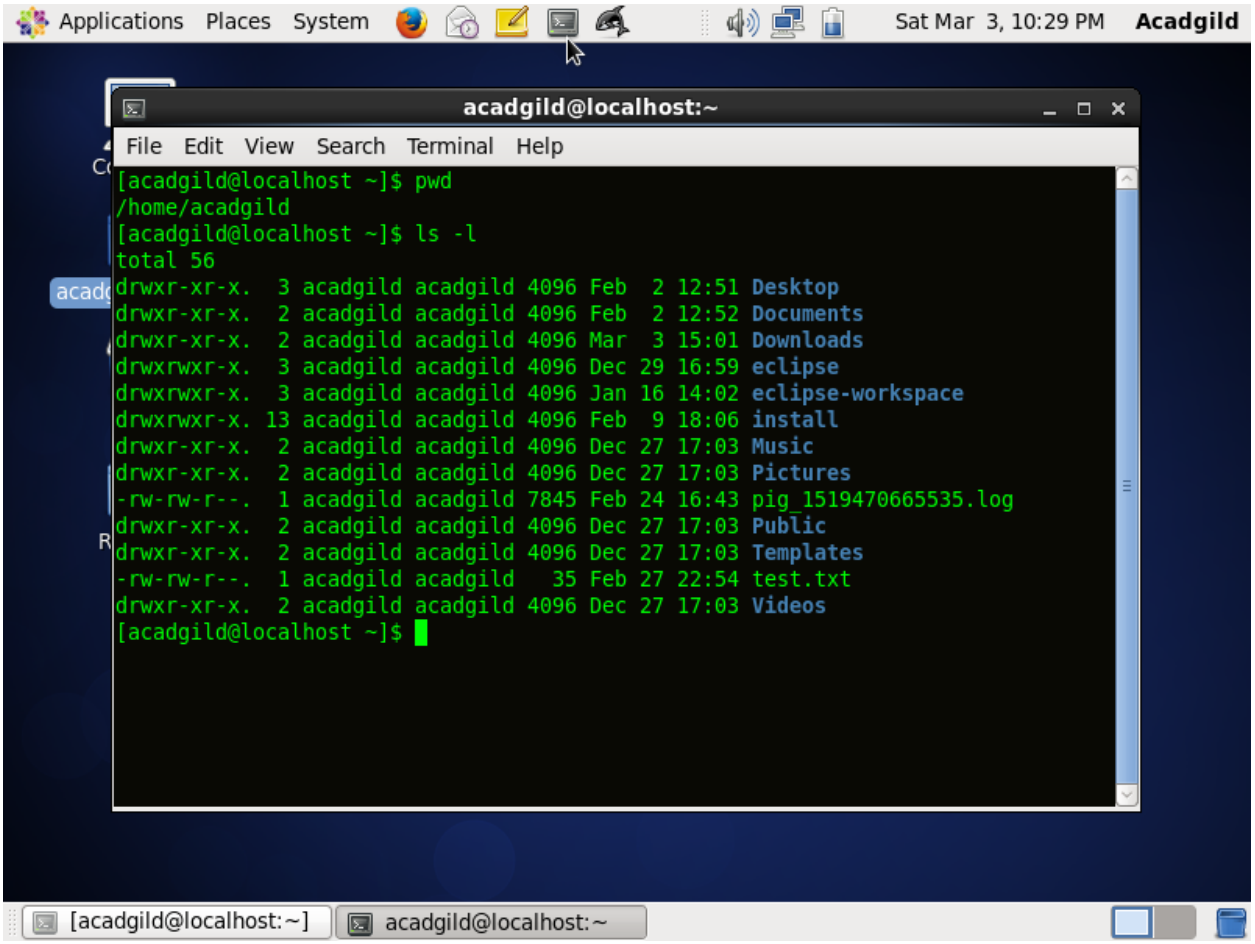


3) Pwd command shows the directory you are currently working in and **ls –l** command, shows all the files and directories along with their details in that respective directory.

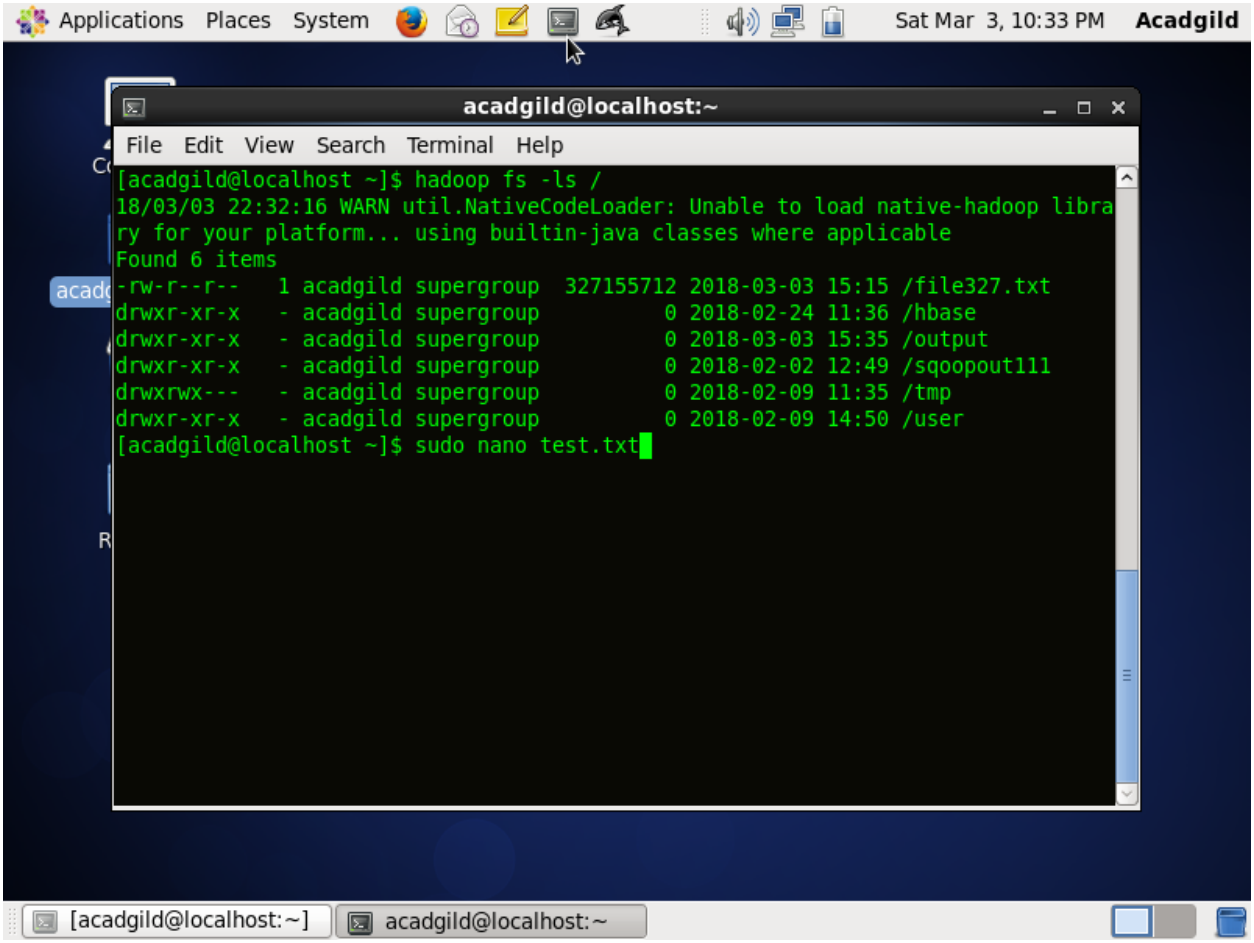
In the screenshot below, one can see that the current working directory is mentioned as home/Acadgild



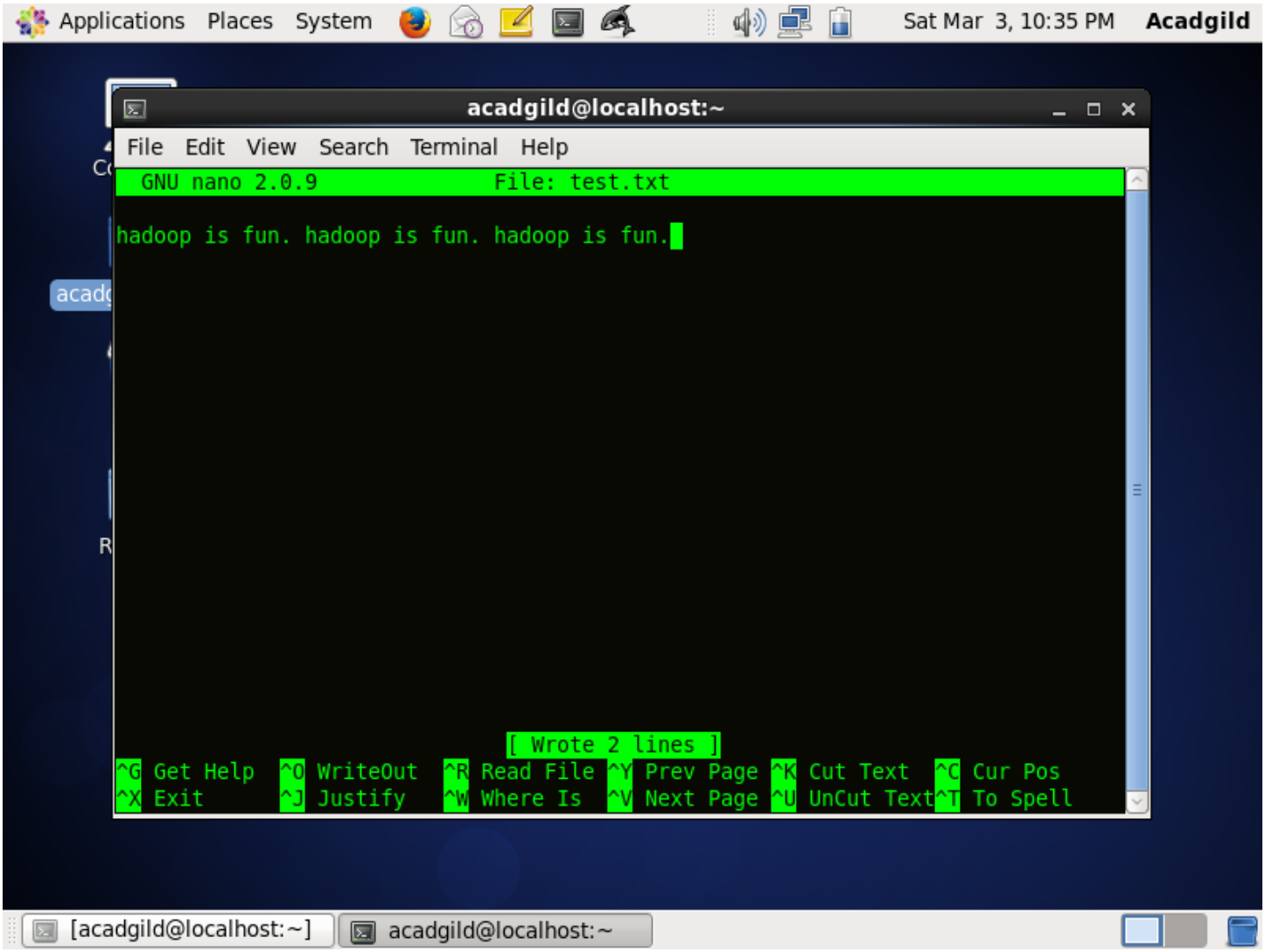
4) The screenshot below shows the output of **ls –l** command, which is displaying the contents of the **/home/Acadgild** directory.



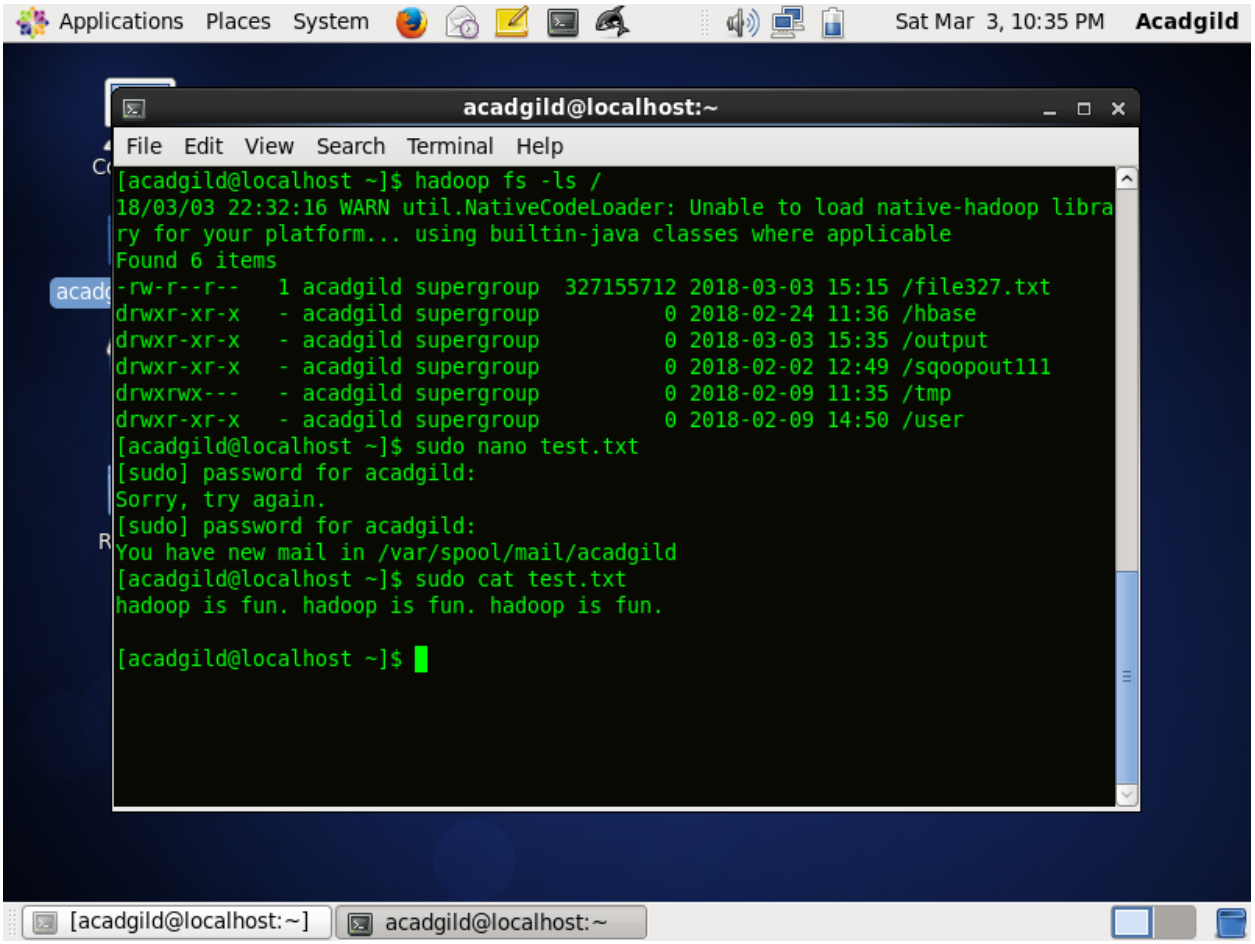
5) To make a new text file, the command is **sudo nano <file-name>**, type the password and proceed. In this case, the file name is **test.txt**.



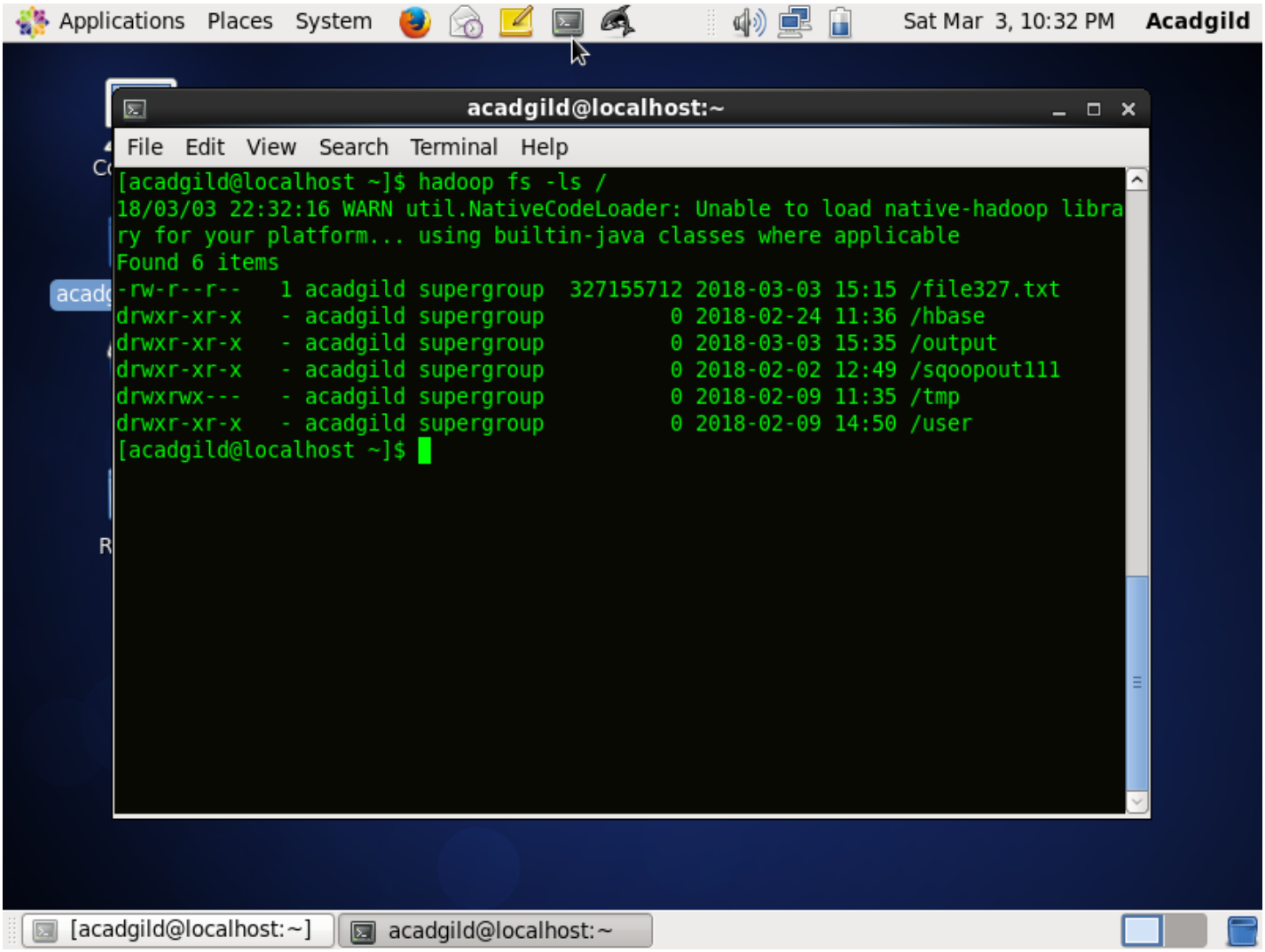
6) Nano text editor will open up. Press **ctrl+o** to save file with desired name and **ctrl+x** to exit the editor.



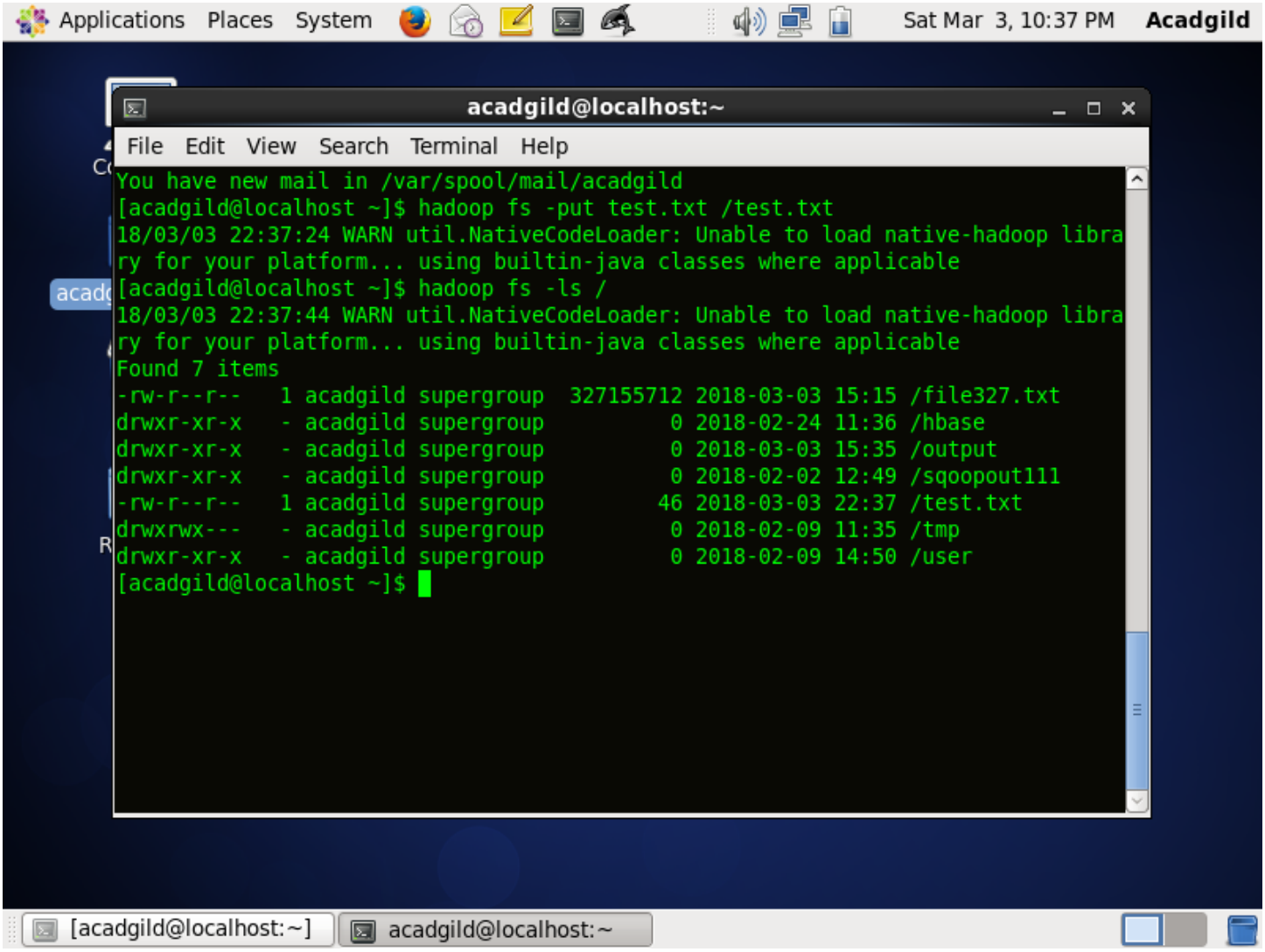
7) The command **sudo cat <file-name>** will show the content of the file. Here one can see that the output is hadoop is fun. hadoop is fun. hadoop is fun.



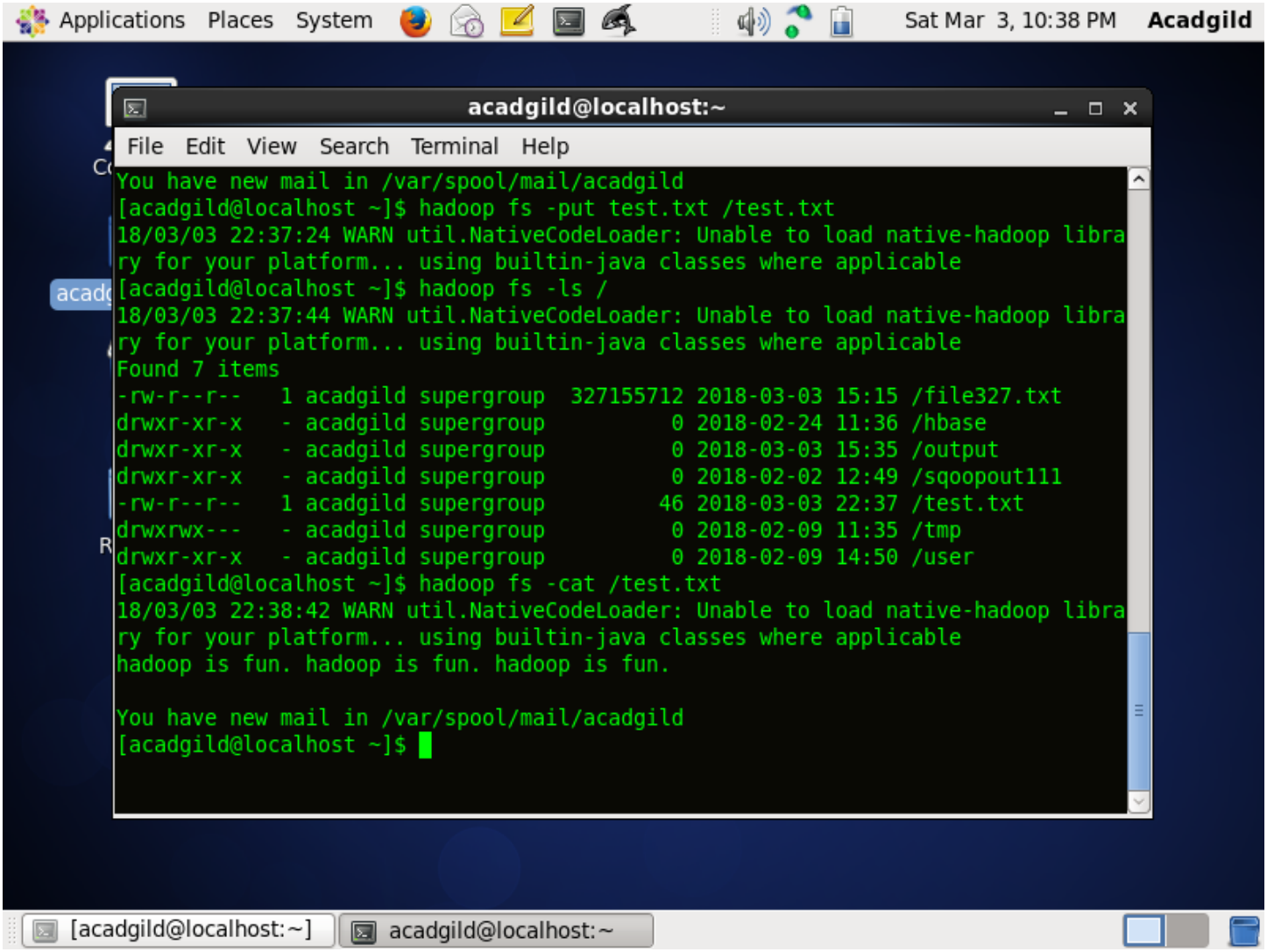
8) To view the contents of HDFS directory the command is **hadoop fs –ls /**



9) To move a file from current working directory to HDFS type **hadoop fs –put test.txt /<file-name>**. One can specify the file name which will be used for that file when it is put into HDFS.



10) Type **hadoop fs –cat /<file-name>** to view the contents of that file from HDFS.



11) To view the status and details of HDFS, go to the browser and type **localhost:50070**