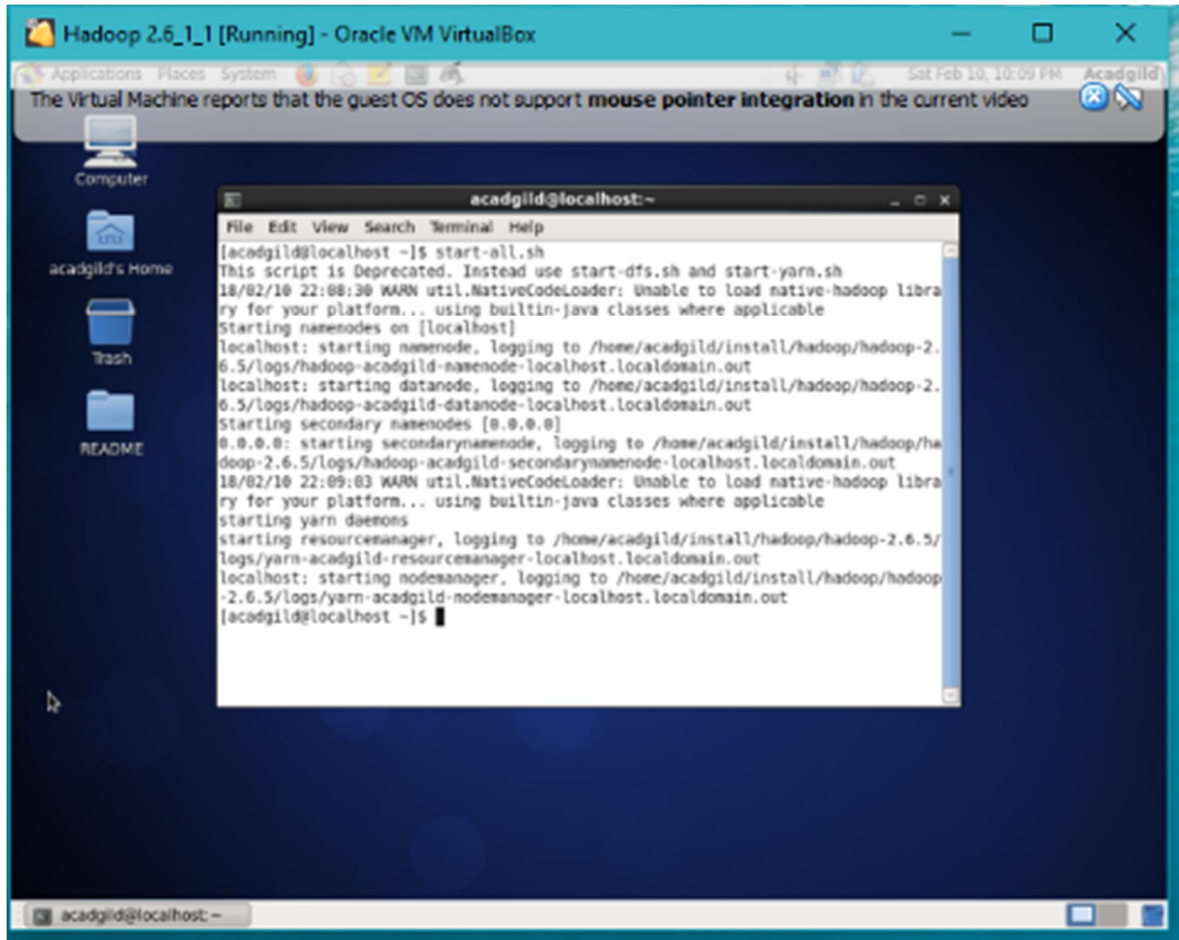
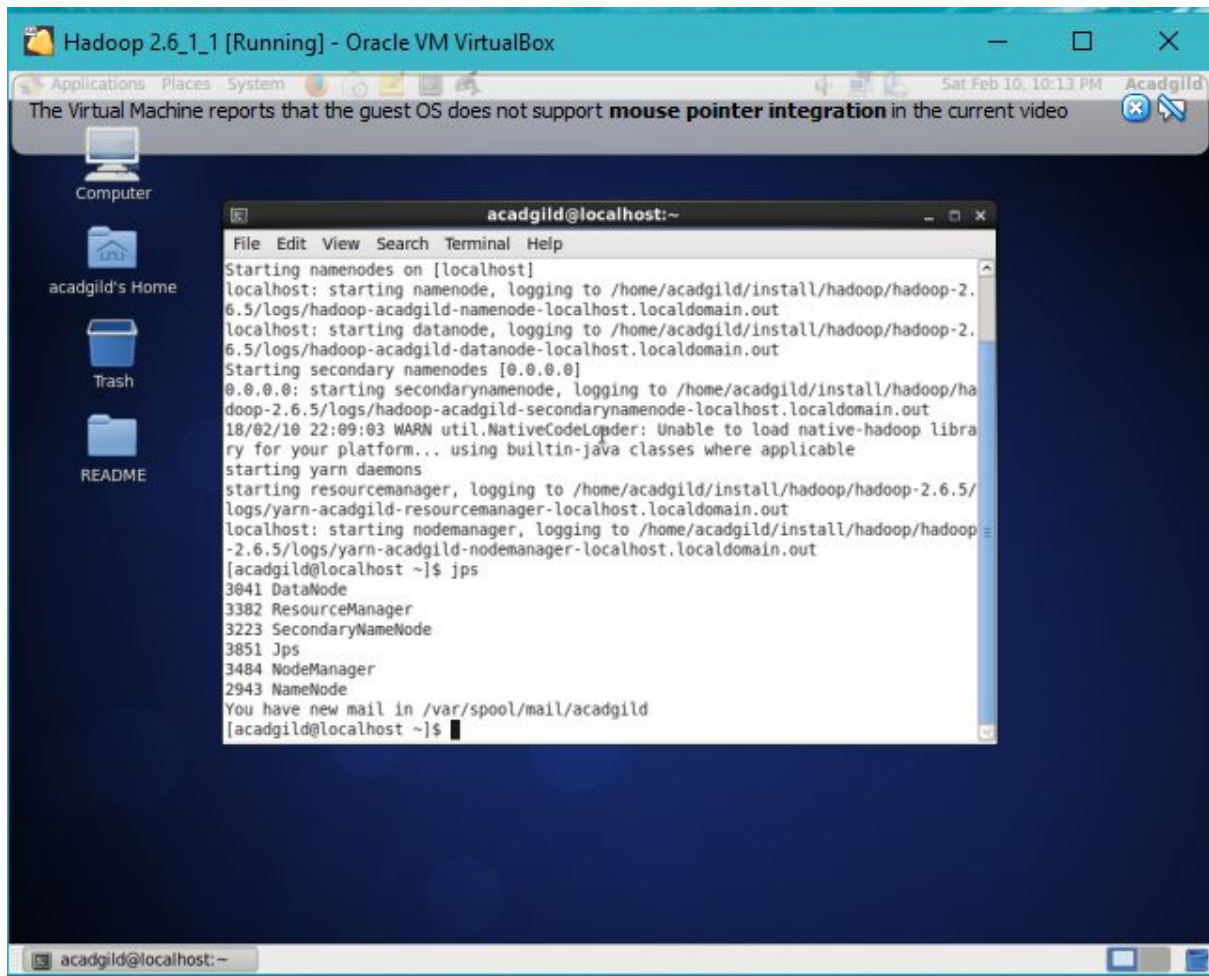


ASSIGNMENT-1

1. Starting Hadoop single node on VM



2. Jsp command



The screenshot shows a virtual machine window titled "Hadoop 2.6_1_1 [Running] - Oracle VM VirtualBox". The guest OS is Ubuntu, and the user is "acagdild". A message at the top states: "The Virtual Machine reports that the guest OS does not support **mouse pointer integration** in the current video".

The terminal window, titled "acagdild@localhost:~", displays the following output:

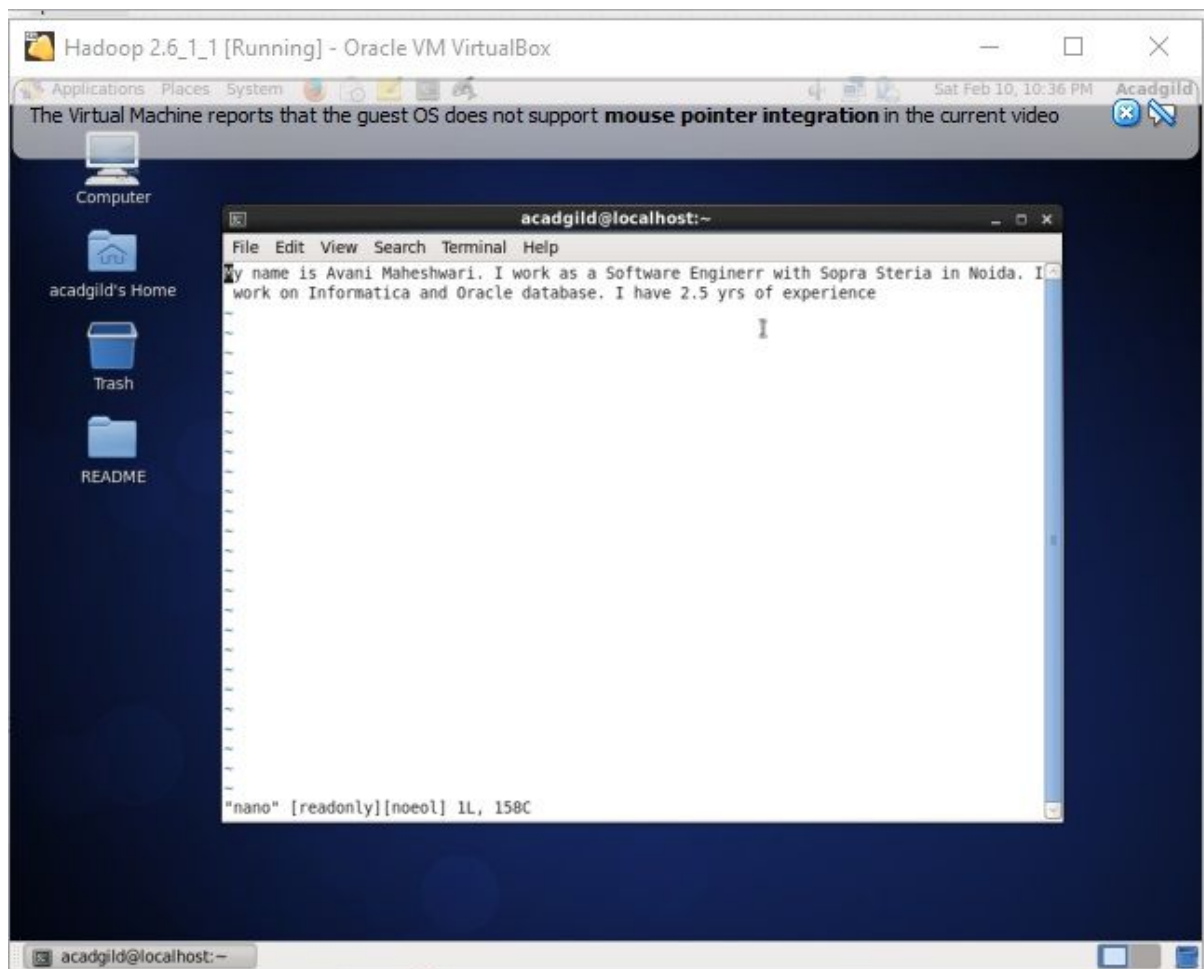
```
File Edit View Search Terminal Help
Starting namenodes on [localhost]
localhost: starting namenode, logging to /home/acagdild/install/hadoop/hadoop-2.6.5/logs/hadoop-acagdild-namenode-localhost.localdomain.out
localhost: starting datanode, logging to /home/acagdild/install/hadoop/hadoop-2.6.5/logs/hadoop-acagdild-datanode-localhost.localdomain.out
Starting secondary namenodes [0.0.0.0]
0.0.0.0: starting secondarynamenode, logging to /home/acagdild/install/hadoop/hadoop-2.6.5/logs/hadoop-acagdild-secondarynamenode-localhost.localdomain.out
18/02/10 22:09:03 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
starting yarn daemons
starting resourcemanager, logging to /home/acagdild/install/hadoop/hadoop-2.6.5/logs/yarn-acagdild-resourcemanager-localhost.localdomain.out
localhost: starting nodemanager, logging to /home/acagdild/install/hadoop/hadoop-2.6.5/logs/yarn-acagdild-nodemanager-localhost.localdomain.out
[acagdild@localhost ~]$ jps
3041 DataNode
3382 ResourceManager
3223 SecondaryNameNode
3851 Jps
3484 NodeManager
2943 NameNode
You have new mail in /var/spool/mail/acagdild
[acagdild@localhost ~]$
```

3. **UNIX Commands:** `ls -lrt` for listing the contents in the home directory, along with their permissions. 3 new files (`nano`, `test.text`, `test.txt`) are also created in the directory.

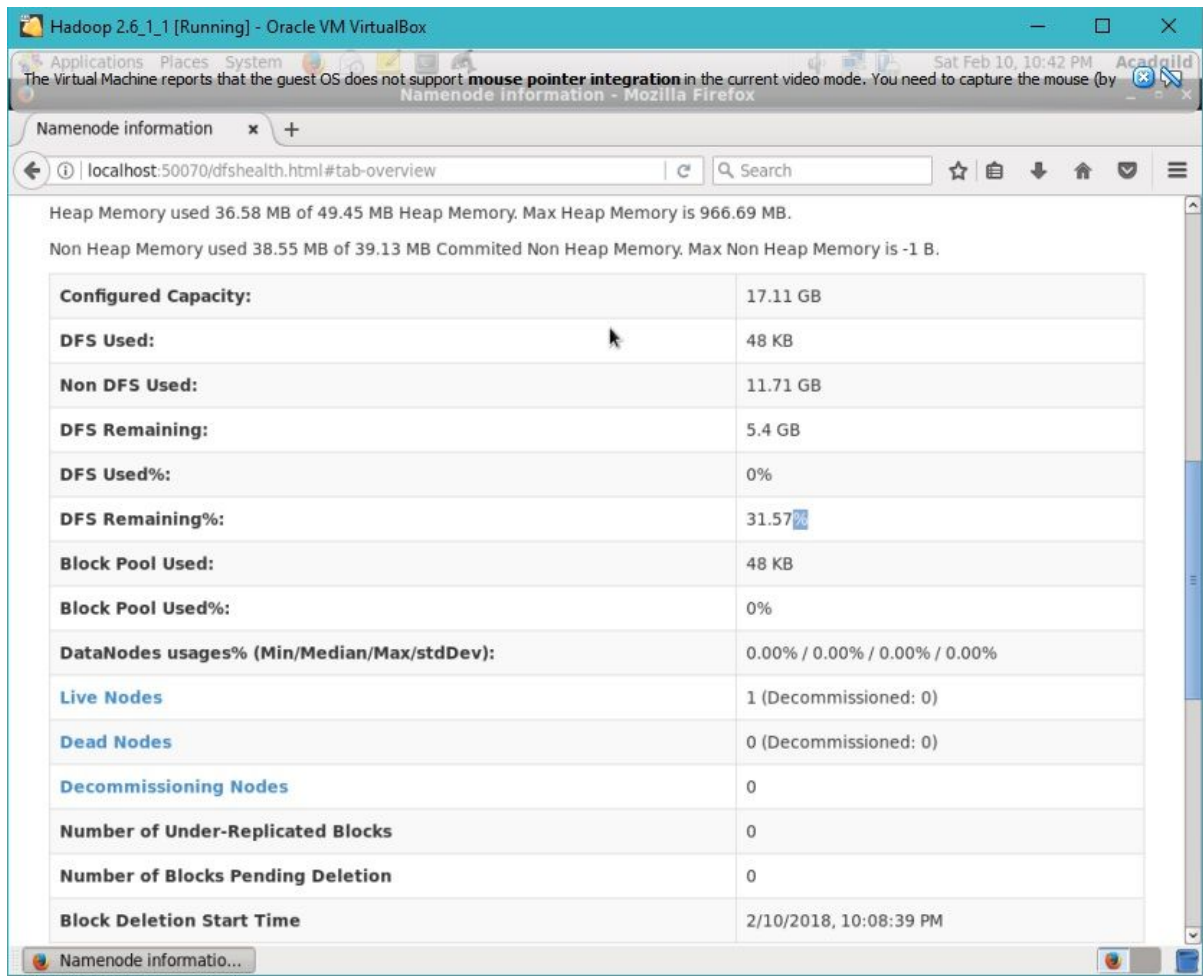
```
Hadoop 2.6_1_1 [Running] - Oracle VM VirtualBox
The Virtual Machine reports that the guest OS does not support mouse pointer integration in the current video

acacgild@localhost: ~
File Edit View Search Terminal Help
[acacgild@localhost ~]$ view nano
[acacgild@localhost ~]$ cat >nano
My name is Avani Maheshwari. I work as a Software Engineer with Sopra Steria in Noida. I
work on Informatica and Oracle database. I have 2.5 yrs of experienceYou have new mail
in /var/spool/mail/acacgild
[acacgild@localhost ~]$ view nano
You have new mail in /var/spool/mail/acacgild
[acacgild@localhost ~]$ ls -lrt
total 56
drwxr-xr-x. 2 acacgild acacgild 4096 Dec 27 17:03 Templates
drwxr-xr-x. 2 acacgild acacgild 4096 Dec 27 17:03 Public
drwxr-xr-x. 2 acacgild acacgild 4096 Dec 27 17:03 Pictures
drwxr-xr-x. 2 acacgild acacgild 4096 Dec 27 17:03 Music
drwxr-xr-x. 2 acacgild acacgild 4096 Dec 27 17:03 Videos
drwxrwxr-x. 3 acacgild acacgild 4096 Dec 29 16:59 eclipse
drwxrwxr-x. 3 acacgild acacgild 4096 Jan 16 14:02 eclipse-workspace
drwxr-xr-x. 3 acacgild acacgild 4096 Feb 2 12:51 Desktop
drwxr-xr-x. 2 acacgild acacgild 4096 Feb 2 12:52 Documents
drwxr-xr-x. 2 acacgild acacgild 4096 Feb 9 11:03 Downloads
drwxrwxr-x. 13 acacgild acacgild 4096 Feb 9 18:06 install
-rw-rw-r--. 1 acacgild acacgild 0 Feb 10 22:21 test.txt
-rw-rw-r--. 1 acacgild acacgild 6 Feb 10 22:29 test.txt
-rw-rw-r--. 1 acacgild acacgild 158 Feb 10 22:35 nano
-rw-rw-r--. 1 acacgild acacgild 2539 Feb 11 2018 pig_1518292378411.log
[acacgild@localhost ~]$ pwd
/home/acacgild
[acacgild@localhost ~]$
```

4. Writing to a newly created file



5. Localhost:50070 in the browser



The screenshot shows a virtual machine window titled "Hadoop 2.6_1_1 [Running] - Oracle VM VirtualBox". Inside the VM, a Mozilla Firefox browser window is open, displaying the "NameNode information" page. The browser's address bar shows "localhost:50070/dfshealth.html#tab-overview". The page content includes memory usage statistics and a table of HDFS metrics.

Heap Memory used 36.58 MB of 49.45 MB Heap Memory. Max Heap Memory is 966.69 MB.
Non Heap Memory used 38.55 MB of 39.13 MB Committed Non Heap Memory. Max Non Heap Memory is -1 B.

Configured Capacity:	17.11 GB
DFS Used:	48 KB
Non DFS Used:	11.71 GB
DFS Remaining:	5.4 GB
DFS Used%:	0%
DFS Remaining%:	31.57%
Block Pool Used:	48 KB
Block Pool Used%:	0%
DataNodes usages% (Min/Median/Max/stdDev):	0.00% / 0.00% / 0.00% / 0.00%
Live Nodes	1 (Decommissioned: 0)
Dead Nodes	0 (Decommissioned: 0)
Decommissioning Nodes	0
Number of Under-Replicated Blocks	0
Number of Blocks Pending Deletion	0
Block Deletion Start Time	2/10/2018, 10:08:39 PM