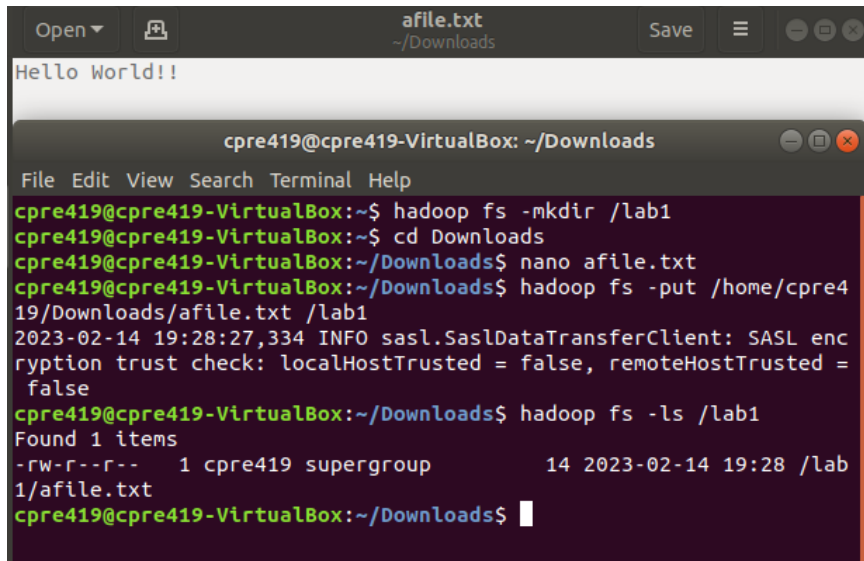


CprE419  
Lab 1 Write UP  
Neha Maddali

### Experiment 1

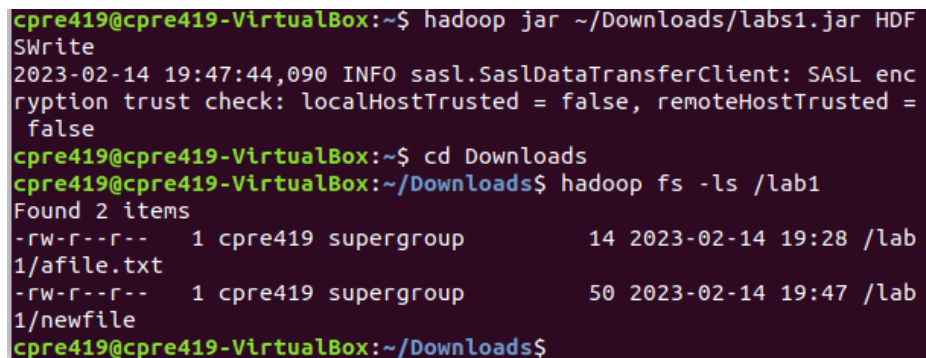
- First three commands create /lab1 and afile.txt with random text
- Text file opened to show text for reference



```
Open afile.txt ~/Downloads Save
Hello World!!

cpre419@cpre419-VirtualBox: ~/Downloads
File Edit View Search Terminal Help
cpre419@cpre419-VirtualBox:~$ hadoop fs -mkdir /lab1
cpre419@cpre419-VirtualBox:~$ cd Downloads
cpre419@cpre419-VirtualBox:~/Downloads$ nano afile.txt
cpre419@cpre419-VirtualBox:~/Downloads$ hadoop fs -put /home/cpre4
19/Downloads/afile.txt /lab1
2023-02-14 19:28:27,334 INFO sasl.SaslDataTransferClient: SASL enc
ryption trust check: localhostTrusted = false, remoteHostTrusted =
false
cpre419@cpre419-VirtualBox:~/Downloads$ hadoop fs -ls /lab1
Found 1 items
-rw-r--r-- 1 cpre419 supergroup      14 2023-02-14 19:28 /lab
1/afile.txt
cpre419@cpre419-VirtualBox:~/Downloads$
```

- HDFSWrite created and saved newfile in /lab1



```
cpre419@cpre419-VirtualBox:~$ hadoop jar ~/Downloads/labs1.jar HDF
SWrite
2023-02-14 19:47:44,090 INFO sasl.SaslDataTransferClient: SASL enc
ryption trust check: localhostTrusted = false, remoteHostTrusted =
false
cpre419@cpre419-VirtualBox:~$ cd Downloads
cpre419@cpre419-VirtualBox:~/Downloads$ hadoop fs -ls /lab1
Found 2 items
-rw-r--r-- 1 cpre419 supergroup      14 2023-02-14 19:28 /lab
1/afile.txt
-rw-r--r-- 1 cpre419 supergroup      50 2023-02-14 19:47 /lab
1/newfile
cpre419@cpre419-VirtualBox:~/Downloads$
```

## Experiment 2:

- Move bigdata file to /lab1 with `hadoop fs -put /home/cpre419/Downloads/bigdata /lab1`

```
cpre419@cpre419-VirtualBox:~/Downloads$ hadoop fs -ls /lab1
Found 3 items
-rw-r--r--  1 cpre419 supergroup      14 2023-02-14 19:28 /lab
1/afile.txt
-rw-r--r--  1 cpre419 supergroup 2000000000 2023-02-14 19:55 /lab
1/bigdata
-rw-r--r--  1 cpre419 supergroup      50 2023-02-14 19:47 /lab
1/newfile
cpre419@cpre419-VirtualBox:~/Downloads$
```

- Checksum created and run, output printed:

```
cpre419@cpre419-VirtualBox:~/Downloads$ cd ..
cpre419@cpre419-VirtualBox:~$ hadoop jar ~/Downloads/labs1_2.jar C
hecksum
2023-02-14 20:21:11,209 INFO sasl.SaslDataTransferClient: SASL enc
ryption trust check: localhostTrusted = false, remoteHostTrusted =
false
Checksum: -4
```