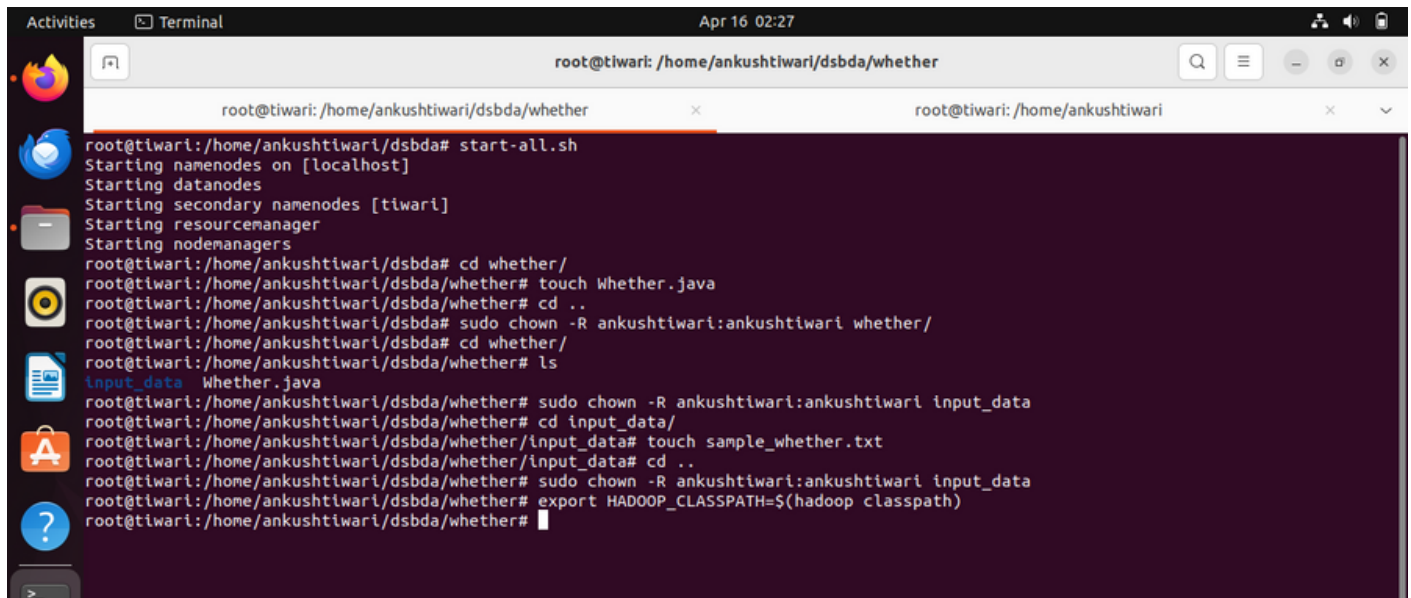
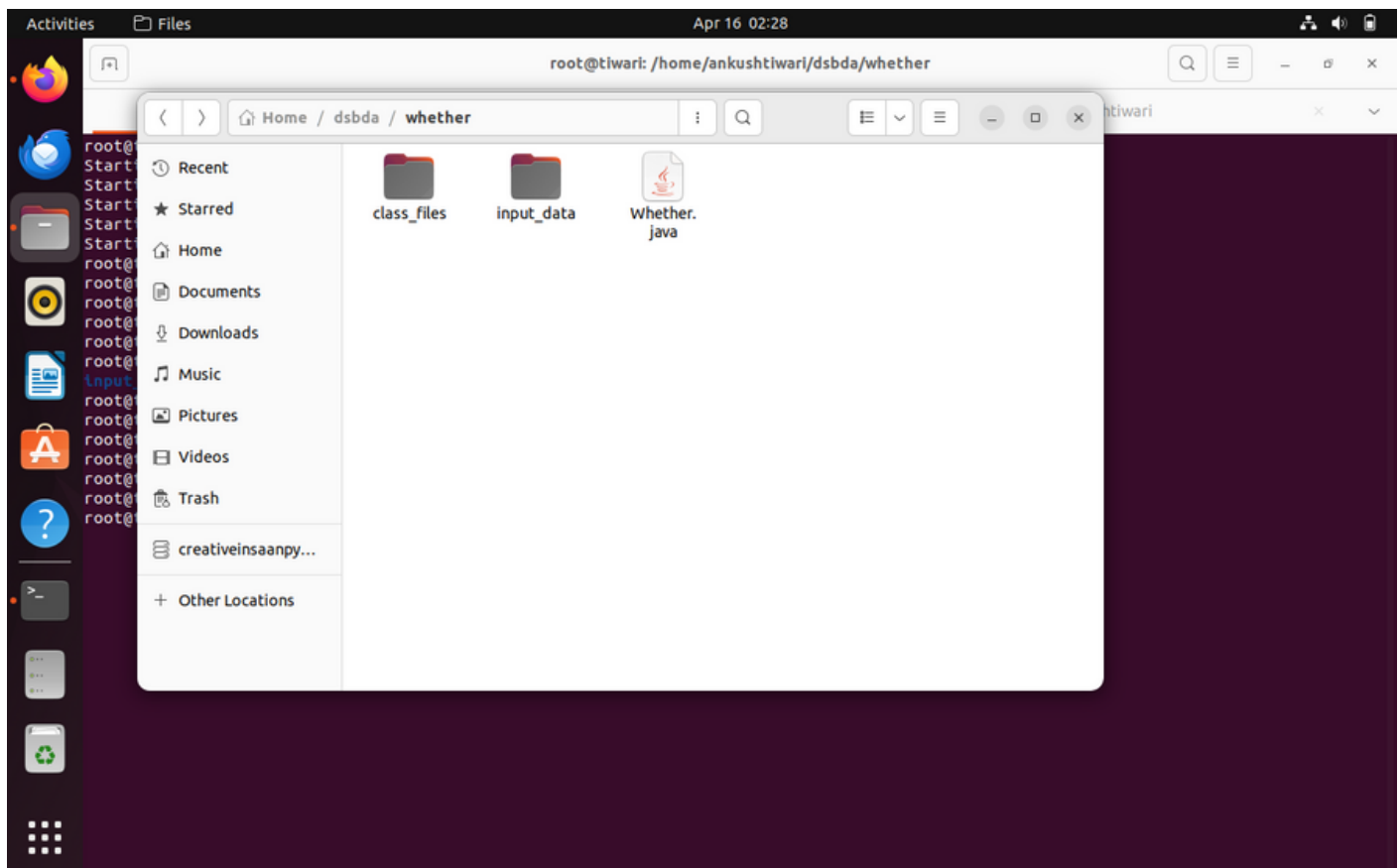


AIM: Locate dataset (e.g., sample_weather.txt) for working on weather data which reads the text input files and finds average for temperature, dew point and wind speed.



```
root@tiwari: /home/ankushtiwari/dsbda/whether
root@tiwari: /home/ankushtiwari/dsbda/whether# start-all.sh
Starting namenodes on [localhost]
Starting datanodes
Starting secondary namenodes [tiwari]
Starting resourcemanager
Starting nodemanagers
root@tiwari: /home/ankushtiwari/dsbda/whether# cd whether/
root@tiwari: /home/ankushtiwari/dsbda/whether# touch Whether.java
root@tiwari: /home/ankushtiwari/dsbda/whether# cd ..
root@tiwari: /home/ankushtiwari/dsbda/whether# sudo chown -R ankushtiwari:ankushtiwari whether/
root@tiwari: /home/ankushtiwari/dsbda/whether# cd whether/
root@tiwari: /home/ankushtiwari/dsbda/whether# ls
input_data  Whether.java
root@tiwari: /home/ankushtiwari/dsbda/whether# sudo chown -R ankushtiwari:ankushtiwari input_data
root@tiwari: /home/ankushtiwari/dsbda/whether# cd input_data/
root@tiwari: /home/ankushtiwari/dsbda/whether/input_data# touch sample_weather.txt
root@tiwari: /home/ankushtiwari/dsbda/whether/input_data# cd ..
root@tiwari: /home/ankushtiwari/dsbda/whether# sudo chown -R ankushtiwari:ankushtiwari input_data
root@tiwari: /home/ankushtiwari/dsbda/whether# export HADOOP_CLASSPATH=$(hadoop classpath)
root@tiwari: /home/ankushtiwari/dsbda/whether#
```



```
root@tiwari:/home/ankushtiwari/dsbda/whether# export HADOOP_CLASSPATH=$(hadoop classpath)
root@tiwari:/home/ankushtiwari/dsbda/whether# hdfs dfs -mkdir /WeatherTut
root@tiwari:/home/ankushtiwari/dsbda/whether# hdfs dfs -mkdir /WeatherTut/Input
root@tiwari:/home/ankushtiwari/dsbda/whether# hdfs dfs -put input_data/sample_weather.txt /WeatherTut/Input
put: '/WeatherTut/Input': No such file or directory: 'hdfs://localhost:9000/WeatherTut/Input'
root@tiwari:/home/ankushtiwari/dsbda/whether# hdfs dfs -put input_data/sample_weather.txt /WeatherTut/Input
put: 'input_data/sample_weather.txt': No such file or directory
root@tiwari:/home/ankushtiwari/dsbda/whether# hdfs dfs -put '/home/ankushtiwari/dsbda/whether/input_data/sample_weather.txt' /WeatherTut/Input
root@tiwari:/home/ankushtiwari/dsbda/whether#
```





Activities Firefox Web Browser Apr 16 02:35

(no subject) - creativeins... APznzaYECuQf4sjHF3E91bT... Ubuntu Command Summ... Browsing HDFS


localhost:9870/explorer.html#/WeatherTut/Input

Hadoop Overview Datanodes Datanode Volume Failures Snapshot Startup Progress Utilities

Browse Directory

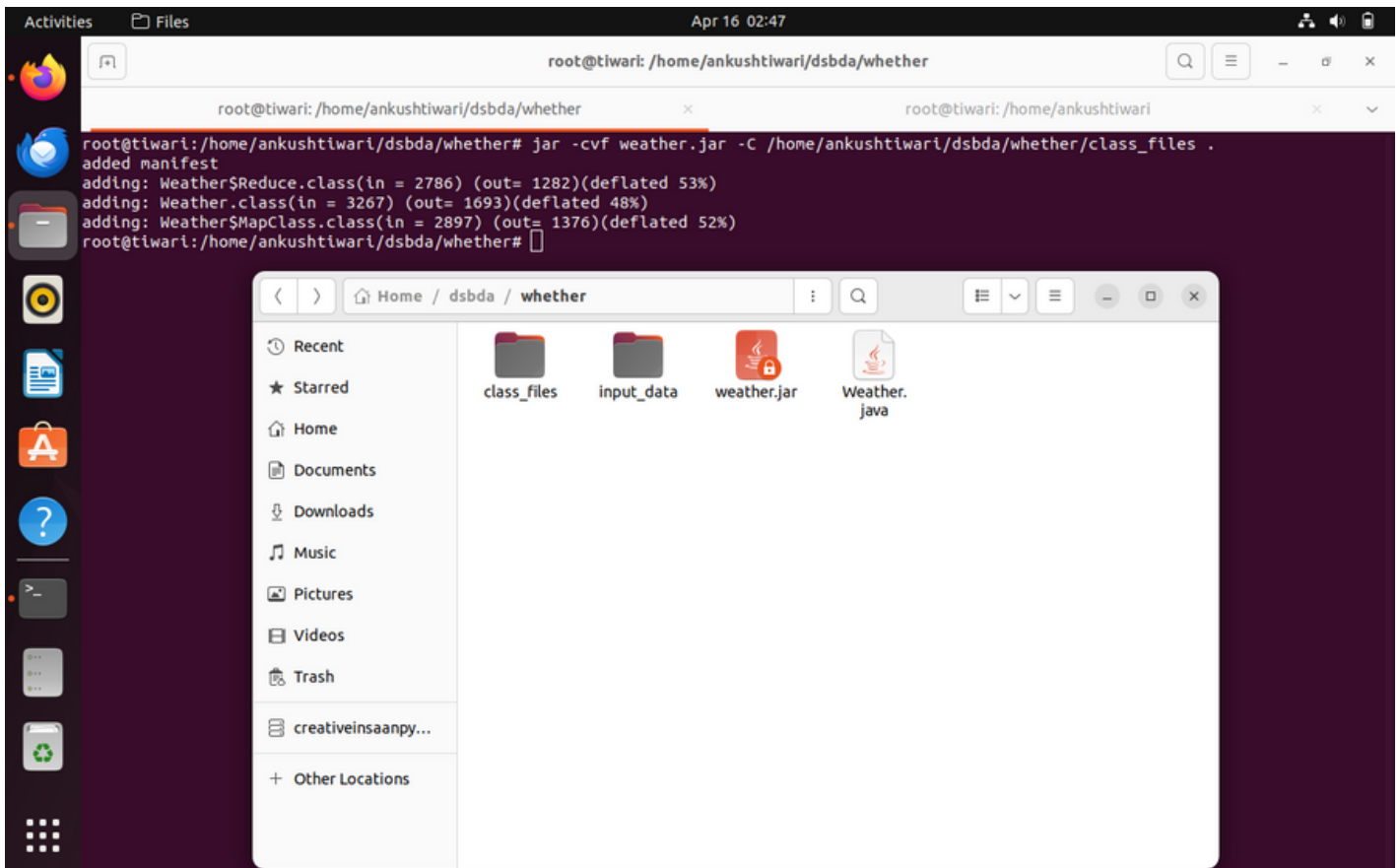
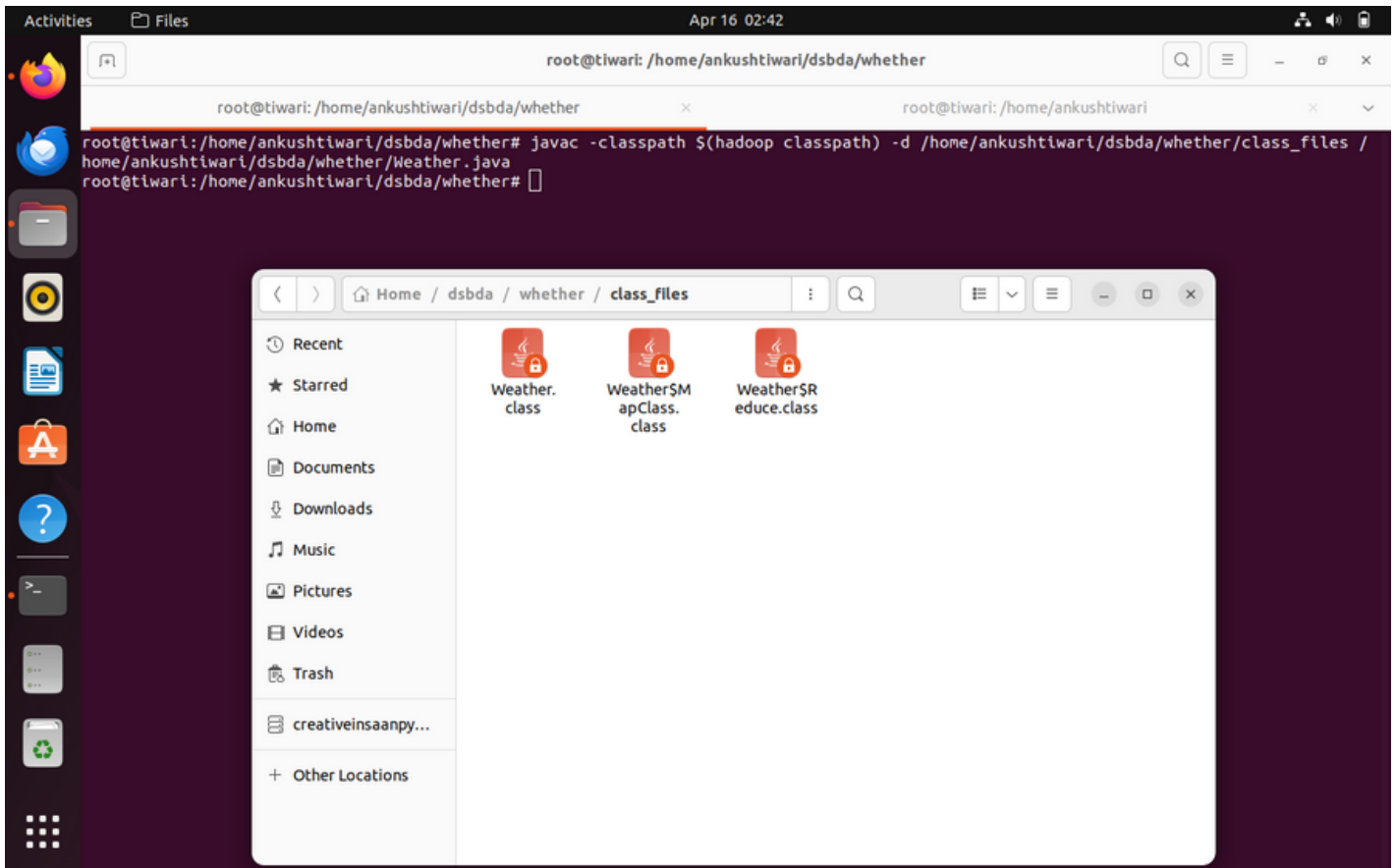
/WeatherTut/Input Go!    

Show 25 entries Search:

<input type="checkbox"/>	Permission	Owner	Group	Size	Last Modified	Replication	Block Size	Name	<input type="checkbox"/>
<input type="checkbox"/>	-rw-r--r--	root	supergroup	916 B	Apr 16 02:33	1	128 MB	sample_weather.txt	

Showing 1 to 1 of 1 entries Previous 1 Next

Hadoop, 2023.



```
Activities Terminal Apr 16 02:52
root@tiwari: /home/ankushtiwari/dsdba/whether

root@tiwari: /home/ankushtiwari/dsdba/whether x root@tiwari: /home/ankushtiwari x
root@tiwari: /home/ankushtiwari/dsdba/whether# cd ..
root@tiwari: /home/ankushtiwari/dsdba# sudo chown -R ankushtiwari:ankushtiwari whether/
root@tiwari: /home/ankushtiwari/dsdba# cd whether/
root@tiwari: /home/ankushtiwari/dsdba/whether# hadoop jar weather.jar Weather /WeatherTut/Input /WeatherTut/Output
2024-04-16 02:49:20,797 INFO client.DefaultNoHARMFalloverProxyProvider: Connecting to ResourceManager at /0.0.0.0:8032
2024-04-16 02:49:21,593 INFO client.DefaultNoHARMFalloverProxyProvider: Connecting to ResourceManager at /0.0.0.0:8032
2024-04-16 02:49:27,590 INFO mapreduce.JobResourceUploader: Disabling Erasure Coding for path: /tmp/hadoop-yarn/staging/root/.staging/job_1713214007656_0001/
2024-04-16 02:49:31,741 INFO mapred.FileInputFormat: Total input files to process : 1
2024-04-16 02:49:32,080 INFO mapreduce.JobSubmitter: number of splits:2
2024-04-16 02:49:33,074 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_1713214007656_0001
2024-04-16 02:49:33,075 INFO mapreduce.JobSubmitter: Executing with tokens: []
2024-04-16 02:49:33,723 INFO conf.Configuration: resource-types.xml not found
2024-04-16 02:49:33,724 INFO resource.ResourceUtils: Unable to find 'resource-types.xml'.
2024-04-16 02:49:45,260 INFO impl.YarnClientImpl: Submitted application application_1713214007656_0001
2024-04-16 02:49:45,490 INFO mapreduce.Job: The url to track the job: http://tiwari.myquest.virtualbox.org:8088/proxy/application_1713214007656_0001/
2024-04-16 02:49:45,500 INFO mapreduce.Job: Running job: job_1713214007656_0001
2024-04-16 02:50:59,397 INFO mapreduce.Job: Job job_1713214007656_0001 running in uber mode : false
2024-04-16 02:50:59,405 INFO mapreduce.Job: map 0% reduce 0%
2024-04-16 02:51:46,853 INFO mapreduce.Job: map 100% reduce 0%
2024-04-16 02:52:03,475 INFO mapreduce.Job: map 100% reduce 100%
2024-04-16 02:52:12,707 INFO mapreduce.Job: Job job_1713214007656_0001 completed successfully
2024-04-16 02:52:17,481 INFO mapreduce.Job: Counters: 55
File System Counters
  FILE: Number of bytes read=348
  FILE: Number of bytes written=831122
  FILE: Number of read operations=0
  FILE: Number of large read operations=0
  FILE: Number of write operations=0
  HDFS: Number of bytes read=1592
  HDFS: Number of bytes written=71
  HDFS: Number of read operations=11
  HDFS: Number of large read operations=0
  HDFS: Number of write operations=2
  HDFS: Number of bytes read erasure-coded=0
Job Counters
  Killed map tasks=1
```

```
Activities Terminal Apr 16 02:52
root@tiwari: /home/ankushtiwari/dsdba/whether

root@tiwari: /home/ankushtiwari/dsdba/whether x root@tiwari: /home/ankushtiwari x
Map-Reduce Framework
  Map input records=9
  Map output records=9
  Map output bytes=324
  Map output materialized bytes=354
  Input split bytes=218
  Combine input records=0
  Combine output records=0
  Reduce input groups=2
  Reduce shuffle bytes=354
  Reduce input records=9
  Reduce output records=2
  Spilled Records=18
  Shuffled Maps =2
  Failed Shuffles=0
  Merged Map outputs=2
  GC time elapsed (ms)=332
  CPU time spent (ms)=11660
  Physical memory (bytes) snapshot=798445568
  Virtual memory (bytes) snapshot=7694954496
  Total committed heap usage (bytes)=595591168
  Peak Map Physical memory (bytes)=298496000
  Peak Map Virtual memory (bytes)=2561880064
  Peak Reduce Physical memory (bytes)=216670208
  Peak Reduce Virtual memory (bytes)=2571194368
Shuffle Errors
  BAD_ID=0
  CONNECTION=0
  IO_ERROR=0
  WRONG_LENGTH=0
  WRONG_MAP=0
  WRONG_REDUCE=0
File Input Format Counters
  Bytes Read=1374
File Output Format Counters
  Bytes Written=71
root@tiwari: /home/ankushtiwari/dsdba/whether#
```

Activities Firefox Web Browser Apr 16 02:54

(no subject) - creativeins APznzaYECuQf4sjHF3E91bT Ubuntu Command Summ Browsing HDFS

localhost:9870/explorer.html#/WeatherTut/Output

Browse Directory

/WeatherTut/Output

Show 25 entries

Permission	Owner
-rw-r--r--	root
-rw-r--r--	root

Showing 1 to 2 of 2 entries

Hadoop, 2023.

File information - part-00000

Download Head the file (first 32K) Tail the file (last 32K)

Block information -- Block 0

Block ID: 1073741848
Block Pool ID: BP-38197123-127.0.1.1-1713094056323
Generation Stamp: 1024
Size: 71
Availability:
• tiwari.myguest.virtualbox.org

File contents

690190_02_section1	56.03 33.0 10.7
690190_02_section4	54.884 33.0 10.7

Activities Terminal Apr 16 02:57

root@tiwari: /home/ankushtiwari/dsbda/whether

root@tiwari: /home/ankushtiwari/dsbda/whether

root@tiwari: /home/ankushtiwari/dsbda/whether# hdfs dfs -cat /WeatherTut/Output/part-00000

```
690190_02_section1      56.03 33.0 10.7
690190_02_section4     54.884 33.0 10.7
root@tiwari: /home/ankushtiwari/dsbda/whether#
```