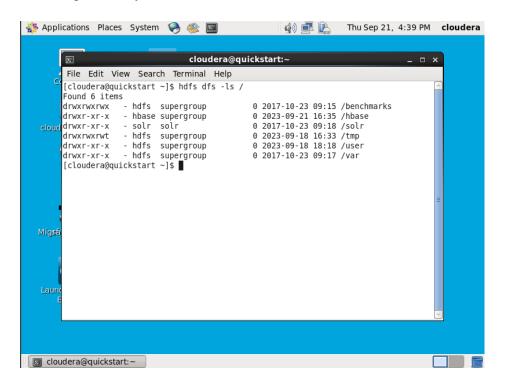
### Big Data GHW – 1

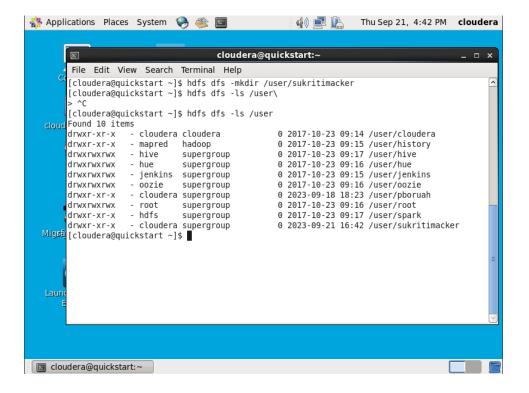
Name: Sukriti Macker NETID: sm11017

Course: Big Data Section – D Semester: Fall 2023

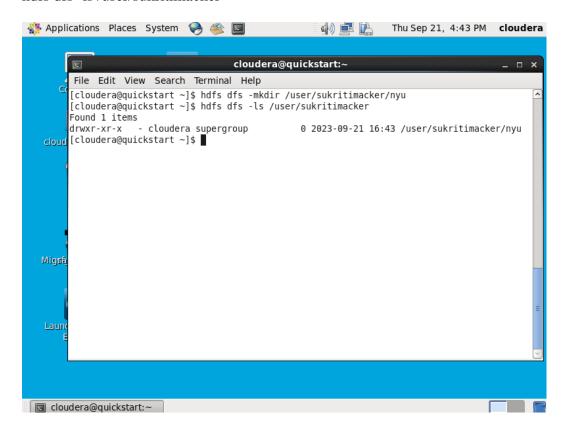
1. Listing directory and files: hdfs dfs -ls /



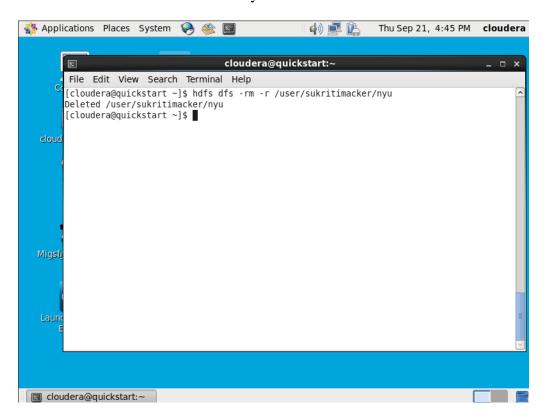
2. Create new directory under /user:-hdfs dfs -mkdir hdfs dfs -ls /user



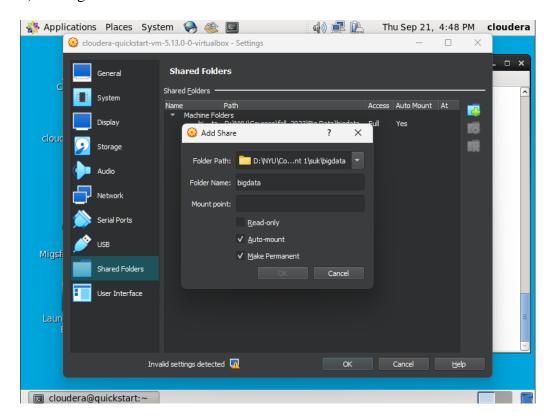
3) Nested destination directories:hdfs dfs -mkdir /user/sukritimacker/nyu hdfs dfs -ls /user/sukritimacker



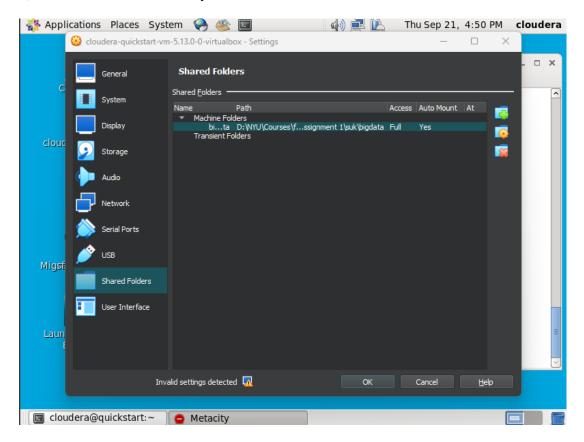
# 4) Remove dir: hdfs dfs -rm -r /user/sukritimacker/nyu



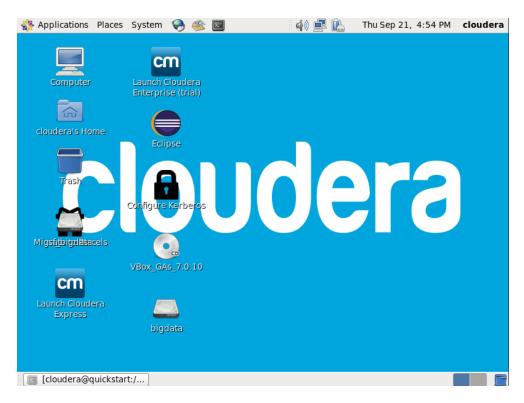
#### 5) Adding shared folder:

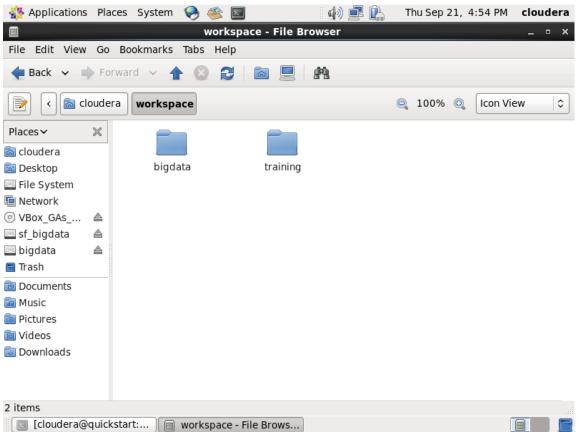


6) Shared Folder successfully added:

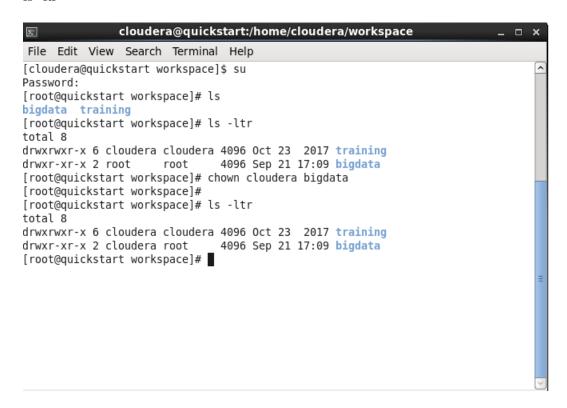


#### 7) Verifying presence of shared folder on system:

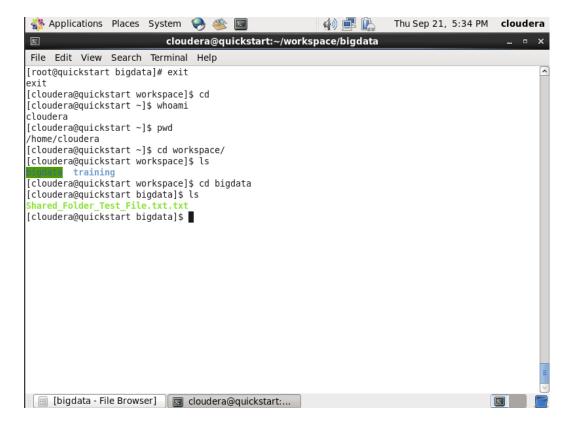




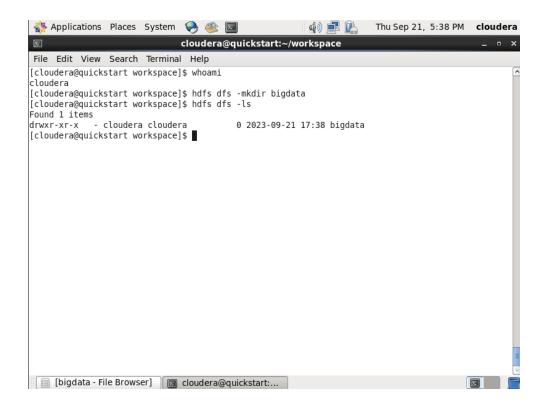
### 8) Changing ownership:chown cloudera bigdata ls -ltr



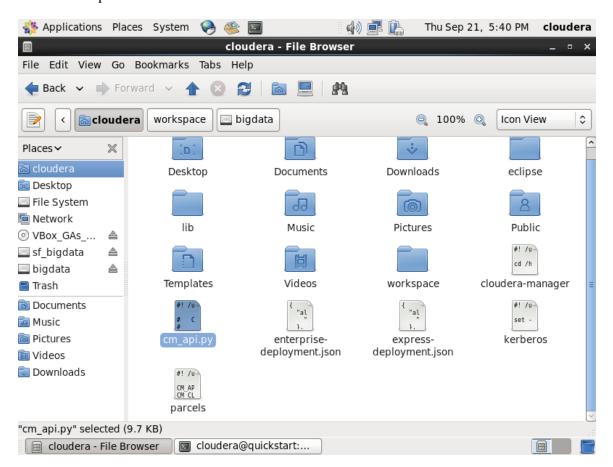
9) Looking into file within shared folder with "cloudera" user:

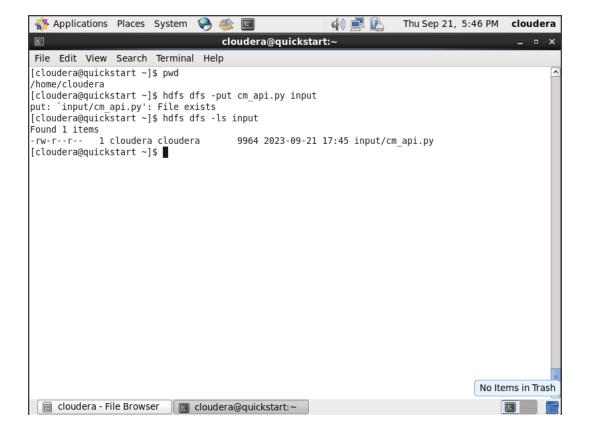


#### 10) Created directories within hdfs:

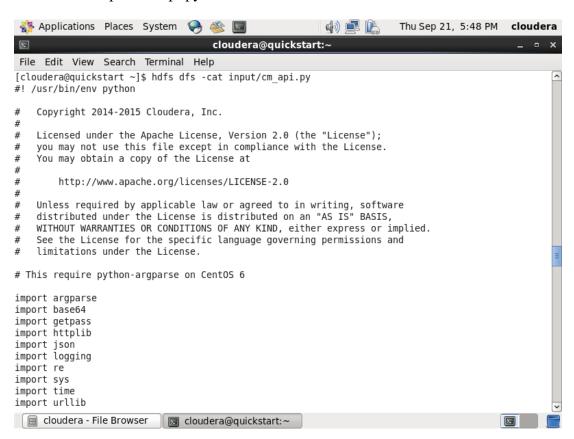


11) Load access log to hdfs:-hdfs dfs -put cm\_api.py hdfs dfs -ls input





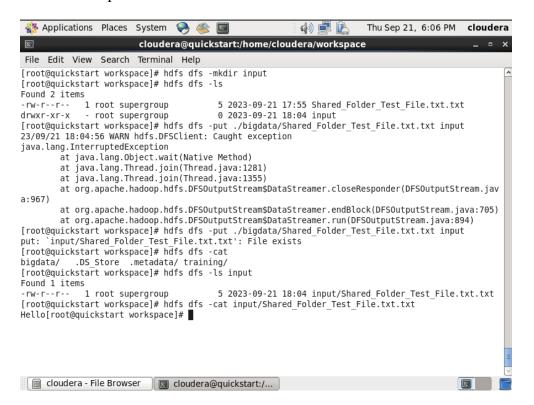
## 12) View the contents of the log file: hdfs dfs -cat input/cm\_api.py

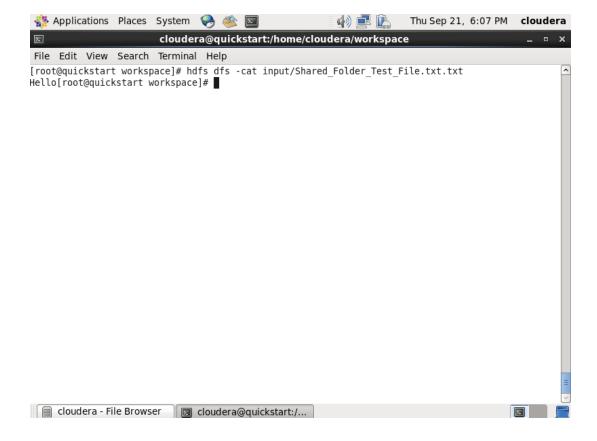


```
(1) Thu Sep 21, 5:49 PM cloudera
👫 Applications Places System 🤪 🚳 国
Σ
                                   cloudera@quickstart:~
File Edit View Search Terminal Help
   if args['endpoint'] in ['live-trial', 'live-deployment', 'live-echo']:
           live = cm live(args)
           if args['endpoint'] == 'live-trial':
               live.trial()
           elif args['endpoint'] == 'live-deployment':
               live.deployment()
           elif args['endpoint'] == 'live-echo':
               live.echo()
       except Exception, e:
           print(e)
           sys.exit(1)
       sys.exit(0)
   if args['body'] == 'stdin':
       args['body'] = sys.stdin.read()
       result = cm_api(**args).execute()
       if type(result).__name__ in ['dict', 'list']:
           print(json.dumps(result, indent=4))
       else:
          sys.stdout.write(result)
   except Exception, e:
       print(e)
       sys.exit(1)
   sys.exit(0)
   name == " main ":
 🔳 cloudera - File Browser

    □ cloudera@quickstart:~
```

13) Repeat step 11 and 12 to put the .txt file hdfs dfs -put ./workspace/bigdata/Shared...txt input hdfs dfs -ls input





#### Learning Outcomes: The main learning outcomes from this assignment were:

- Proficiency in using Hadoop Distributed File System (HDFS) commands to list directories, access files, and manage data, which is essential for effective data exploration and management in a Big Data environment.
- Skill in creating, organizing, and removing directories and files within HDFS, demonstrating the ability to structure and maintain data in a Big Data context.
- Competence in adding, verifying, and managing shared folders within HDFS, facilitating collaboration and data sharing among team members, which is critical for team-based Big Data projects.
- Understanding of changing ownership and permissions using Linux commands like "chown," ensuring secure data access and control, a fundamental aspect of data security and governance in Big Data systems.
- Proficiency in using "hdfs dfs -put" to load external data sources into HDFS and "hdfs dfs -cat" to view file contents, enabling data ingestion, and data inspection, which are key steps in the Big Data analytics pipeline.

Now that I have achieved these outcomes, I can navigate the Cloudera environment and use the Hadoop interface proficiently.