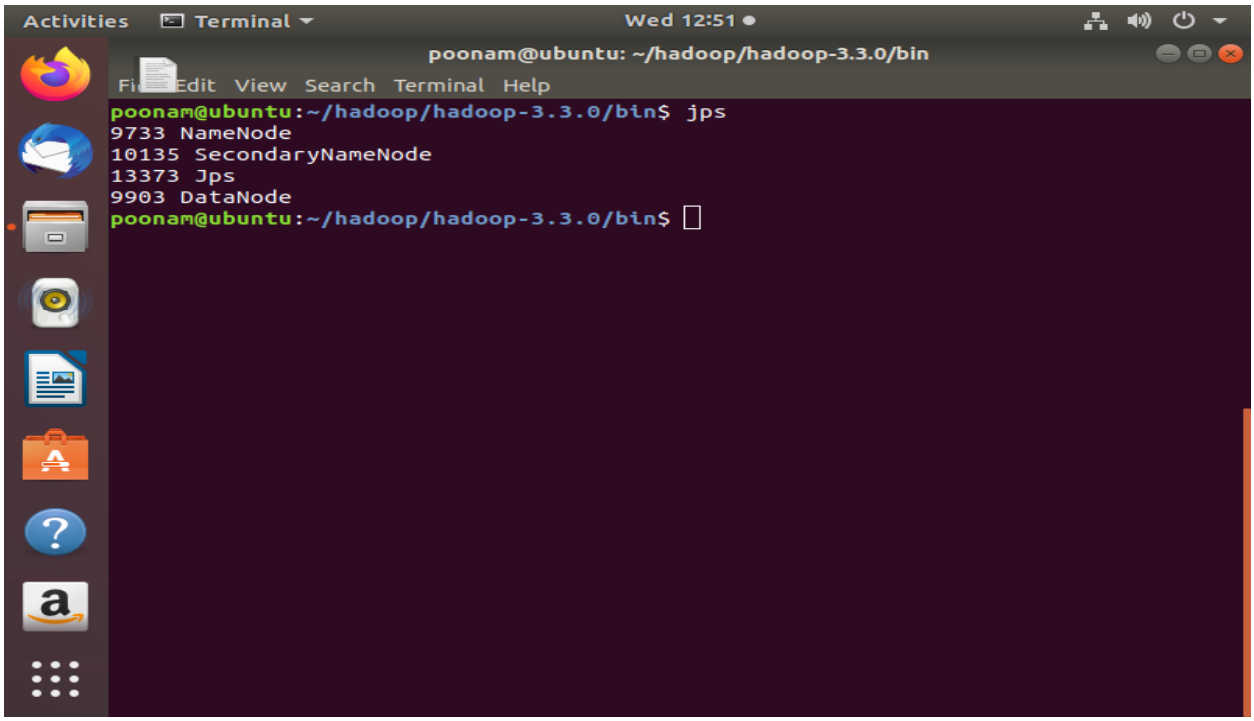
Solution of 3 rd test

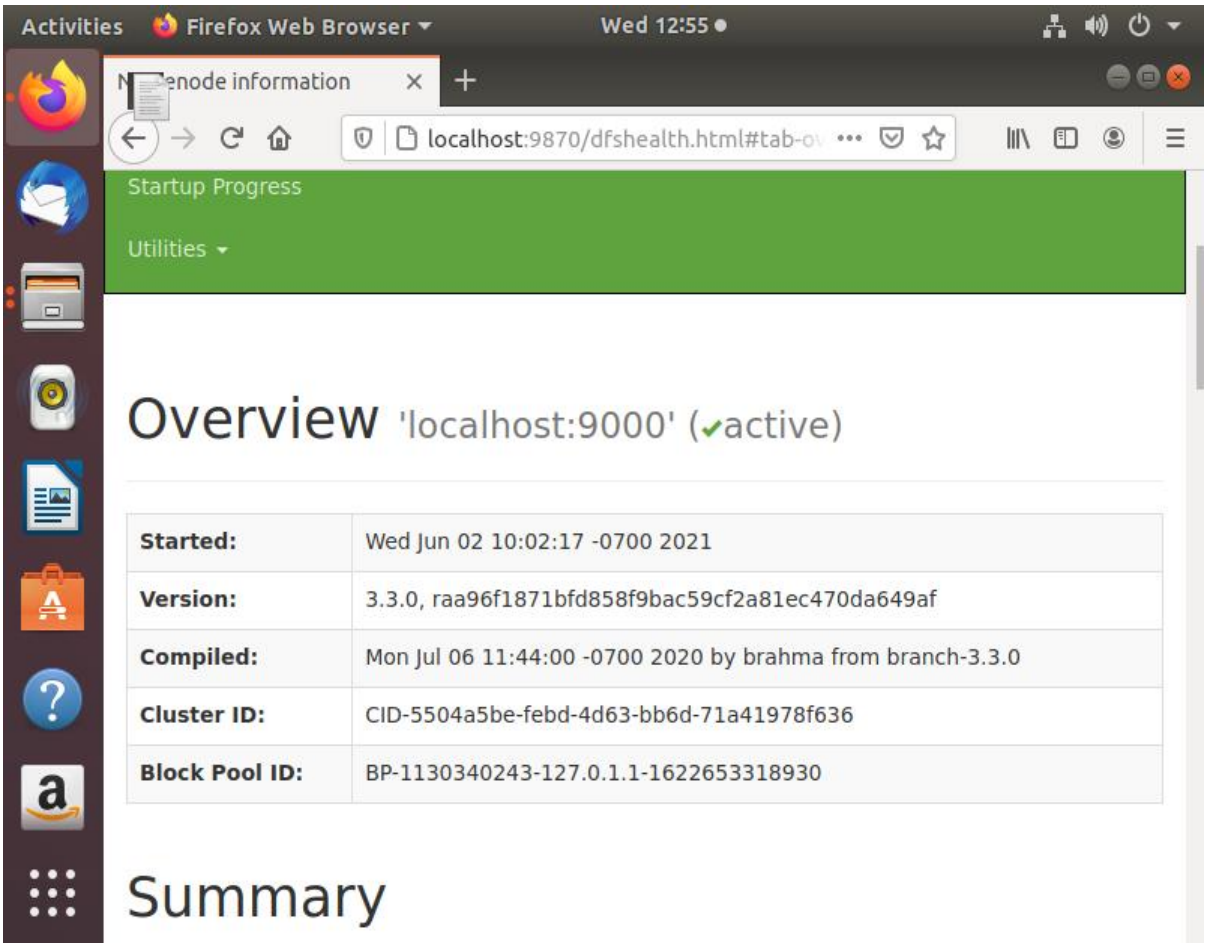
1. **What is the Namenode's URI and which file is it configured in?**
   Ans. Namenode's URI is hdfs://localhost:9870, it's configured with fs.default.name property that's specified in /home/poonam/hadoop/hadoop-3.3.0/etc/hadoop/core-site.xml
   <property>
   <name>fs.default.name</name>
   <value>hdfs://localhost:9000</value>
   </property>

2. **Where on a local file system will Namenode store its image and which file is it configured in?**
   Ans. Namenode will store its image under /home/poonam/hadoop_store/hdfs/namenode, it's configured with dfs.namenode.name.dir property thats specified in /home/poonam/hadoop/hadoop-3.3.0/etc/hadoop /hdfs-site.xml
   <property>
   <name>dfs.namenode.name.dir</name>
   <value>file:/home/prave/hadoop_store/hdfs/namenode</value>
   </property>
3. **Where on a local file system will Datanode store its blocks and which file is it configured in?**
   Ans. Datanode will store its image under /home/poonam/hadoop_store/hdfs/datanode, it's configured with dfs.datanode.data.dir property thats specified in /home/poonam/hadoop/hadoop-3.3.0/etc/hadoop /hdfs-site.xml
   <property>
   <name>dfs.datanode.data.dir</name>
   <value>file:/home/prave/hadoop_store/hdfs/datanode</value>
   </property>
4. **What is the block replication and which file is it configured in?**
   Ans. Replication is set to 1, it's configured with dfs.replication property that's specified in /home/poonam/hadoop/hadoop-3.3.0/etc//hdfs-site.xml
   <property>
   <name>dfs.replication</name>
   <value>1</value>
   </property>

****Perform**

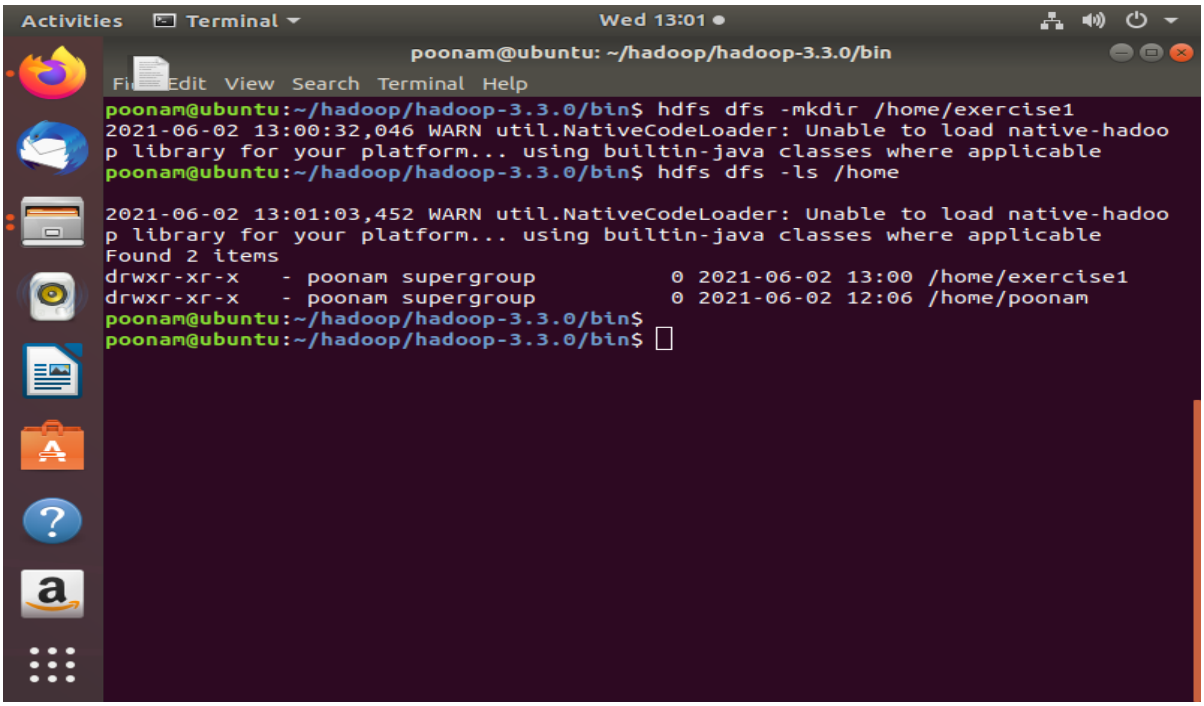
1. **Start HDFS and verify that it's running**
   Code: jps





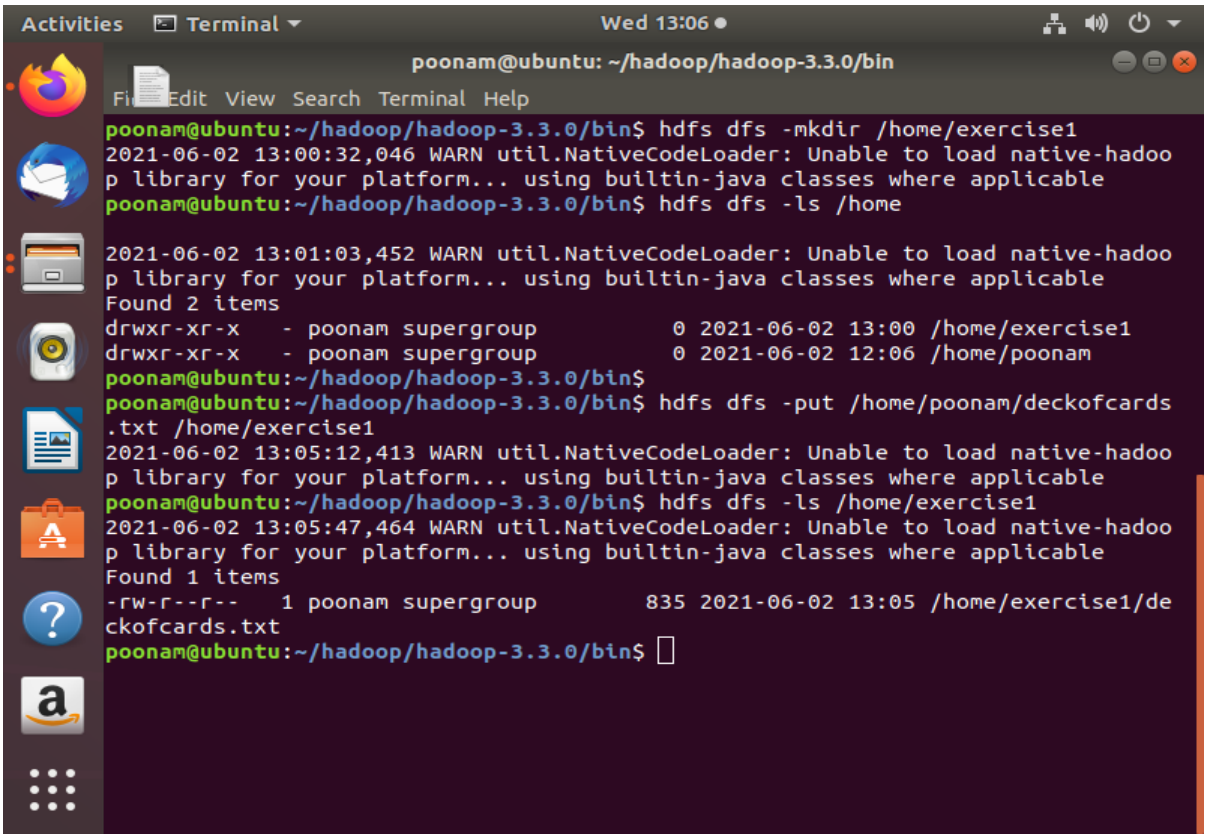
2. **Create a new directory /exercise1 on HDFS**

Code: hdfs dfs -mkdir /home/exercise1



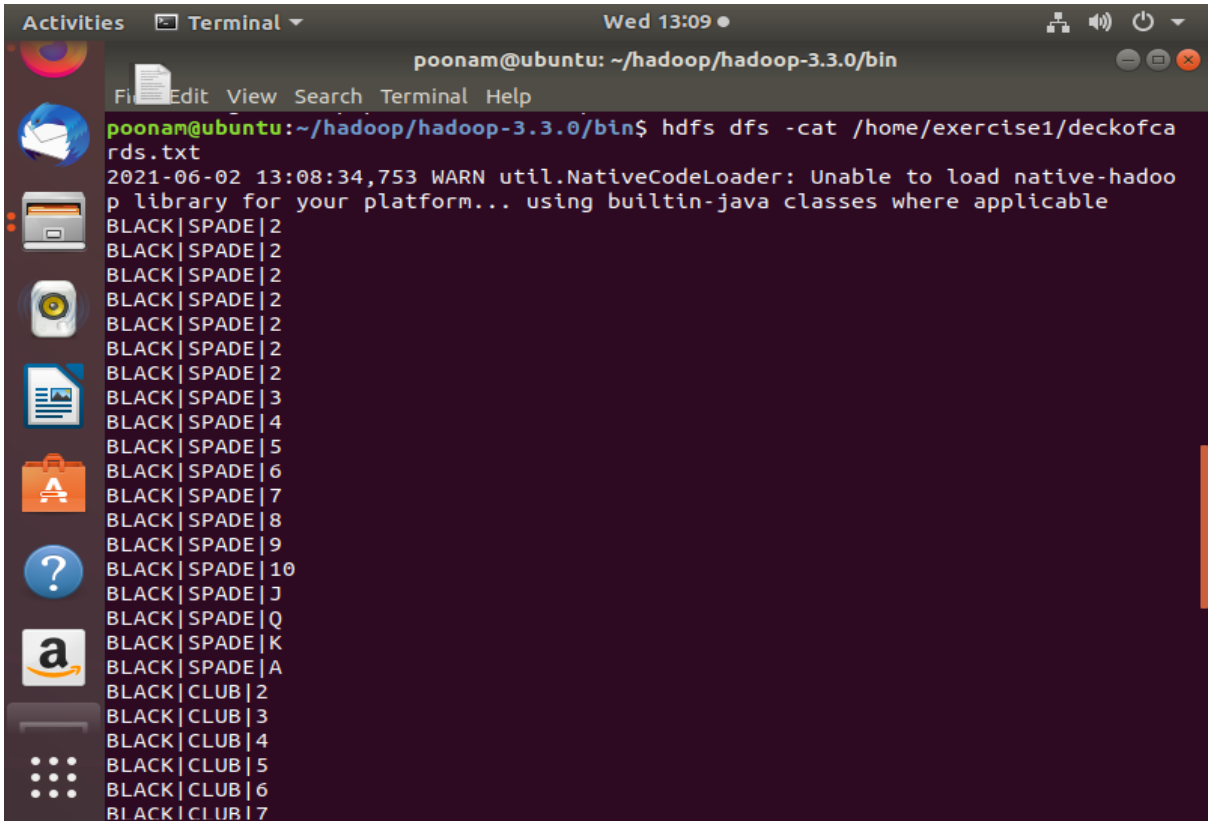
3. **Upload GitHub repo sample_data/deckofcards.txt to HDFS under /exercise1 directory**

Code: hdfs dfs –put /home/poonam/deckofcads.txt /home/exercise1



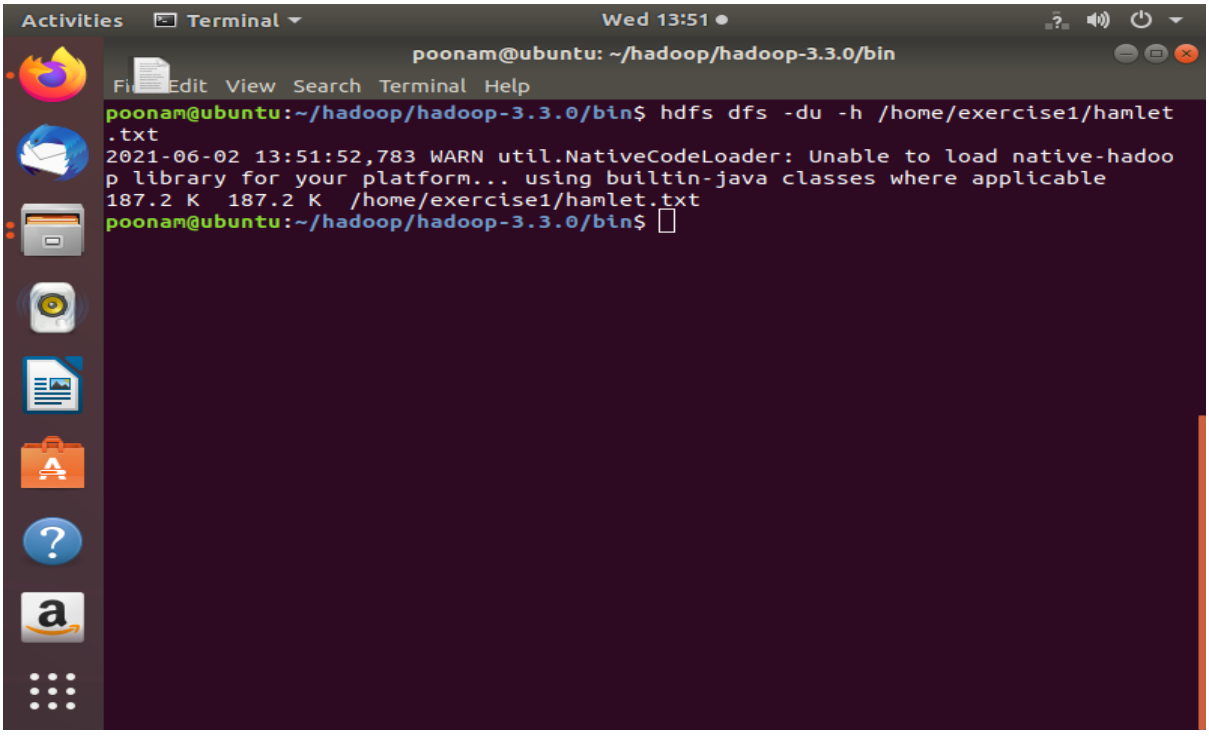
4. **View the content of the /exercise1 directory**

Code: hdfs dfs –cat /home/poonam/deckofcads.txt



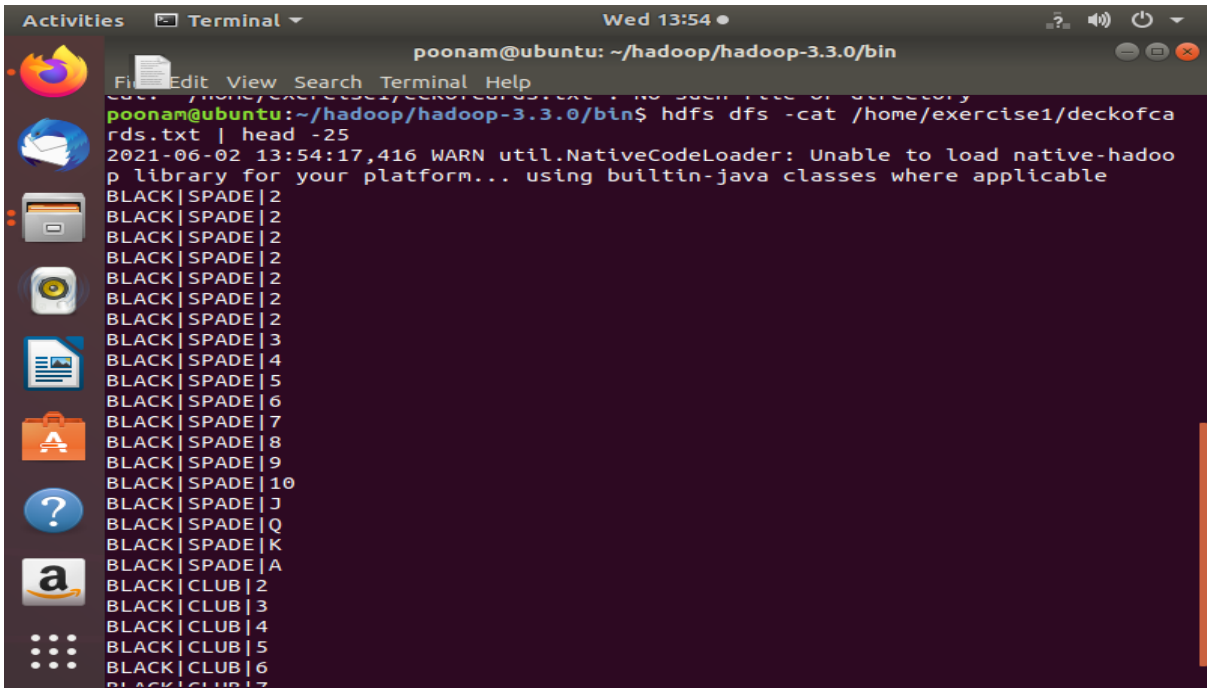
5. **Determine the size of the hamlet.txt file in KB that resides on HDFS (not local directory)**

Code: hdfs dfs –du –h /home/exercise1/hamlet.txt



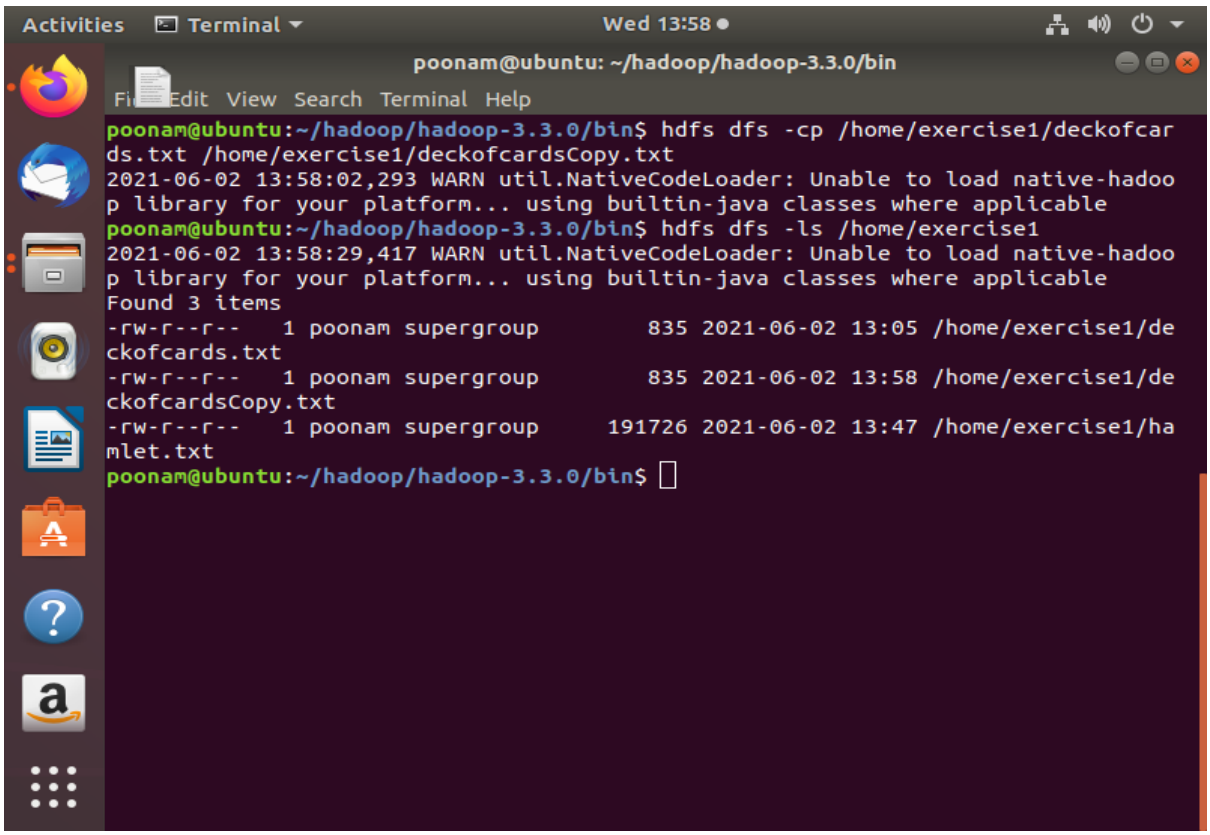
6. **Print the first 25 lines to the screen from deckofcards.txt on HDFS**

Code: hdfs dfs –cat /home/exercise1/deckofcards.txt | head -25

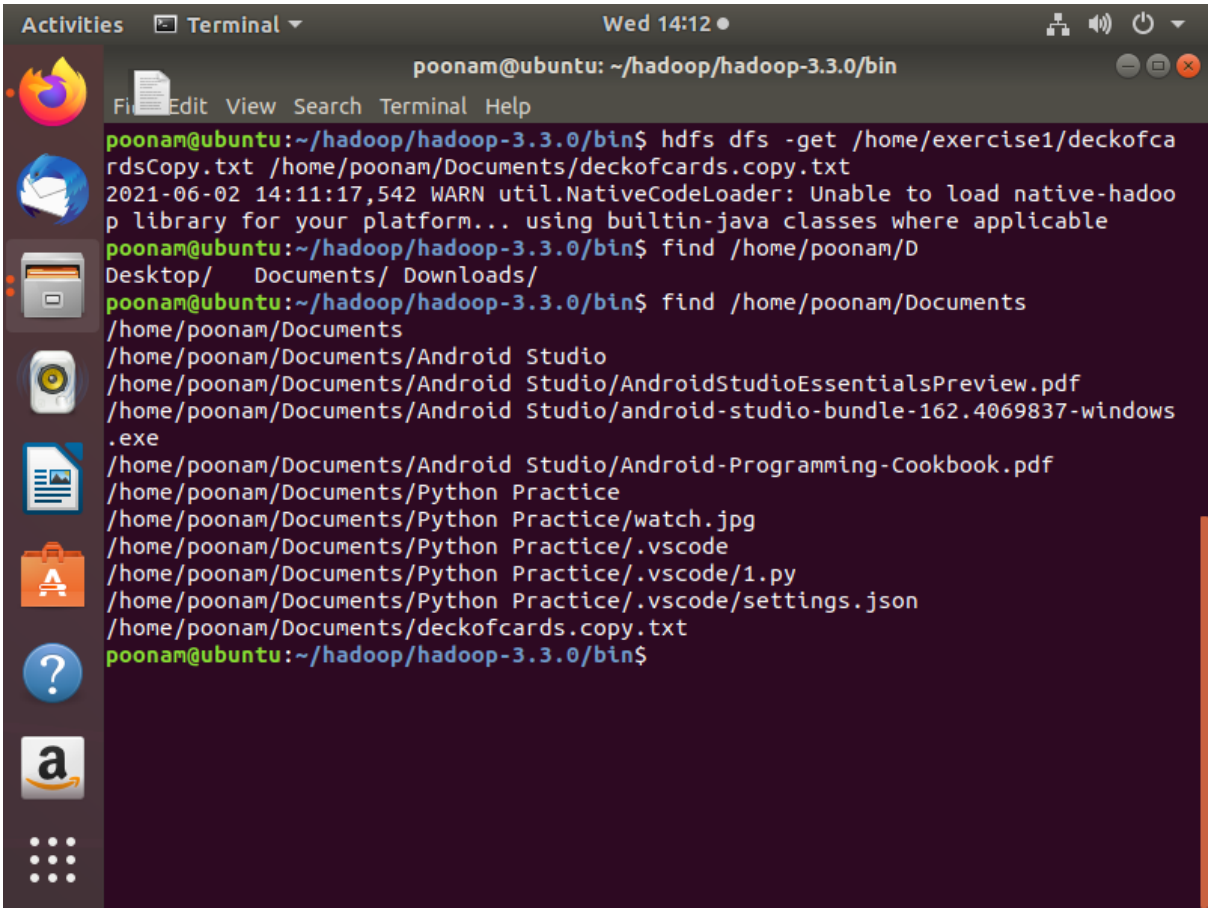


7. **Copy deckofcards.txt to deckofcardsCopy.txt**

Code: hdfs dfs –cp /home/exercise1/deckofcards.txt /home/exercise1/deckofcardsCopy.txt

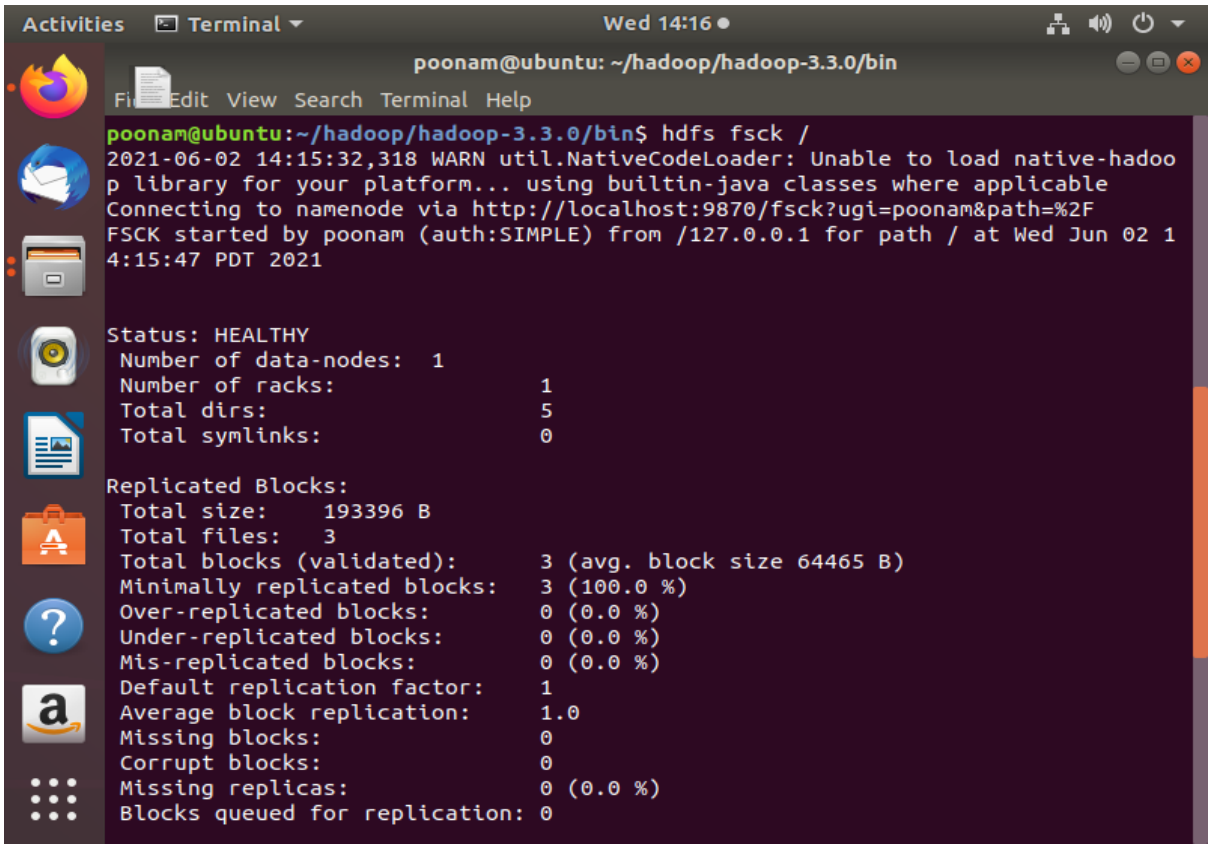


8. **Copy deckofcards.txt back to local file system and name it deckofcards.copy.txt**
   Code: hdfs dfs –get /home/exercise1/ deckofcardsCopy.txt /home/poonam/Documents/deckofcards.copy.txt



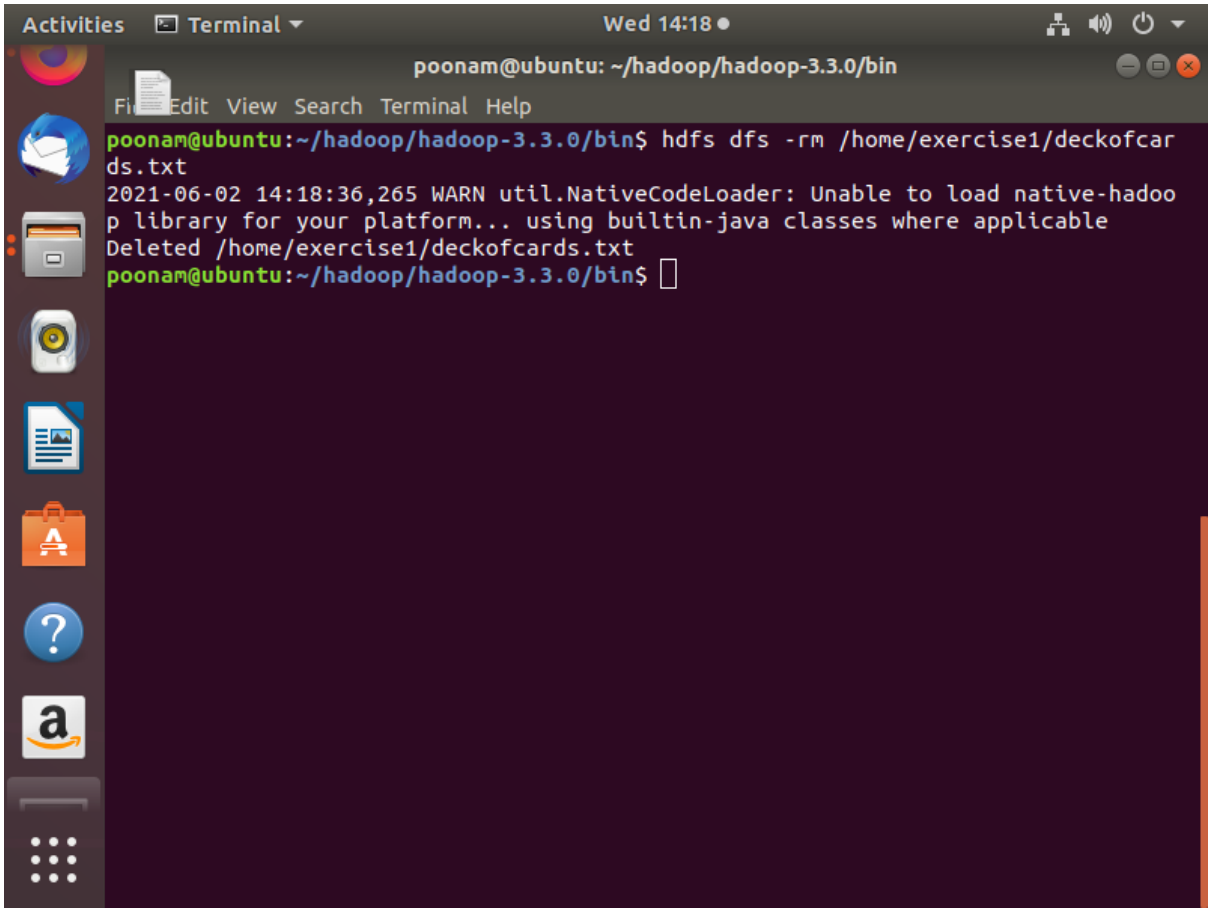
9. **Check the entire filesystem for inconsistencies/problems**

Code: hdfs fsck /



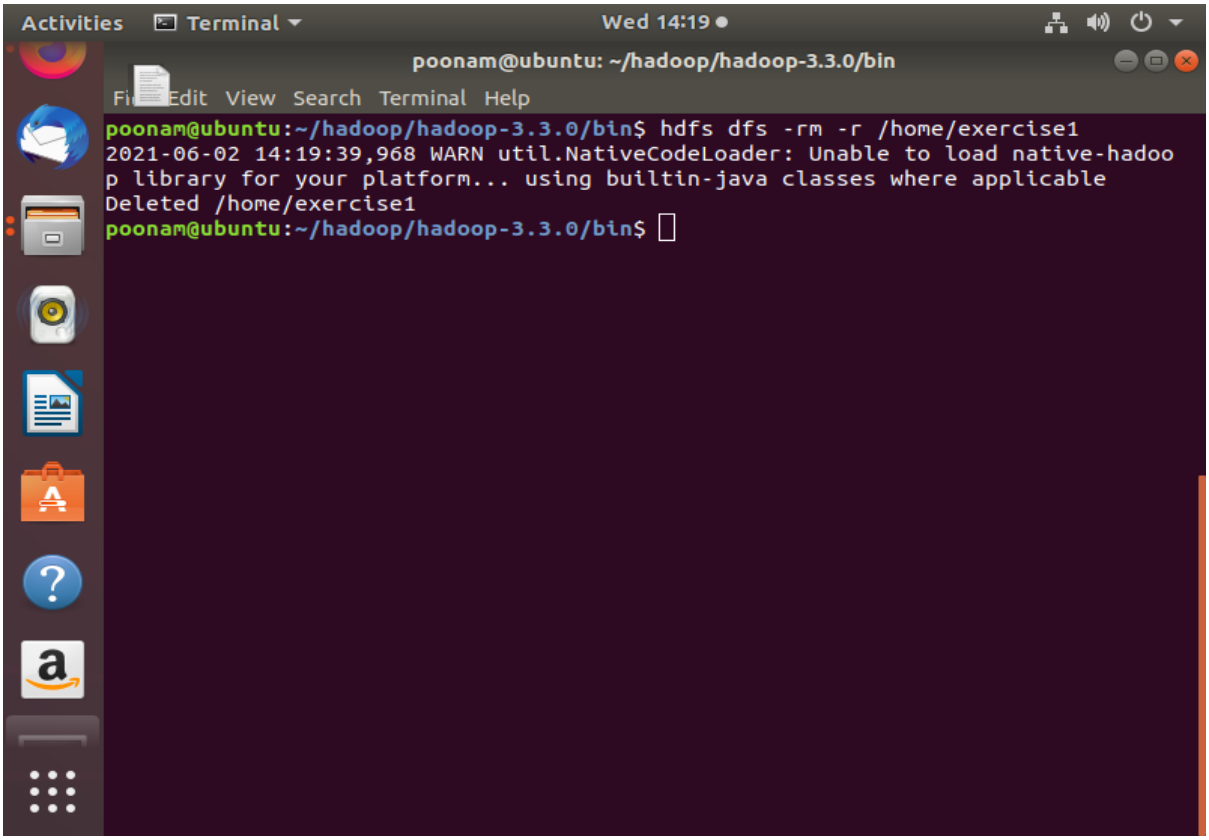
10. Delete deckofcards.txt from HDFS

Code: hdfs dfs –rm /home/exercise1/ deckofcards.txt



11. Delete the /exercise1 directory from HDFS

Code: hdfs dfs –rm –r /home/exercise1



12. Take a second to look at other available shell options.

Code: hdfs dfs –help