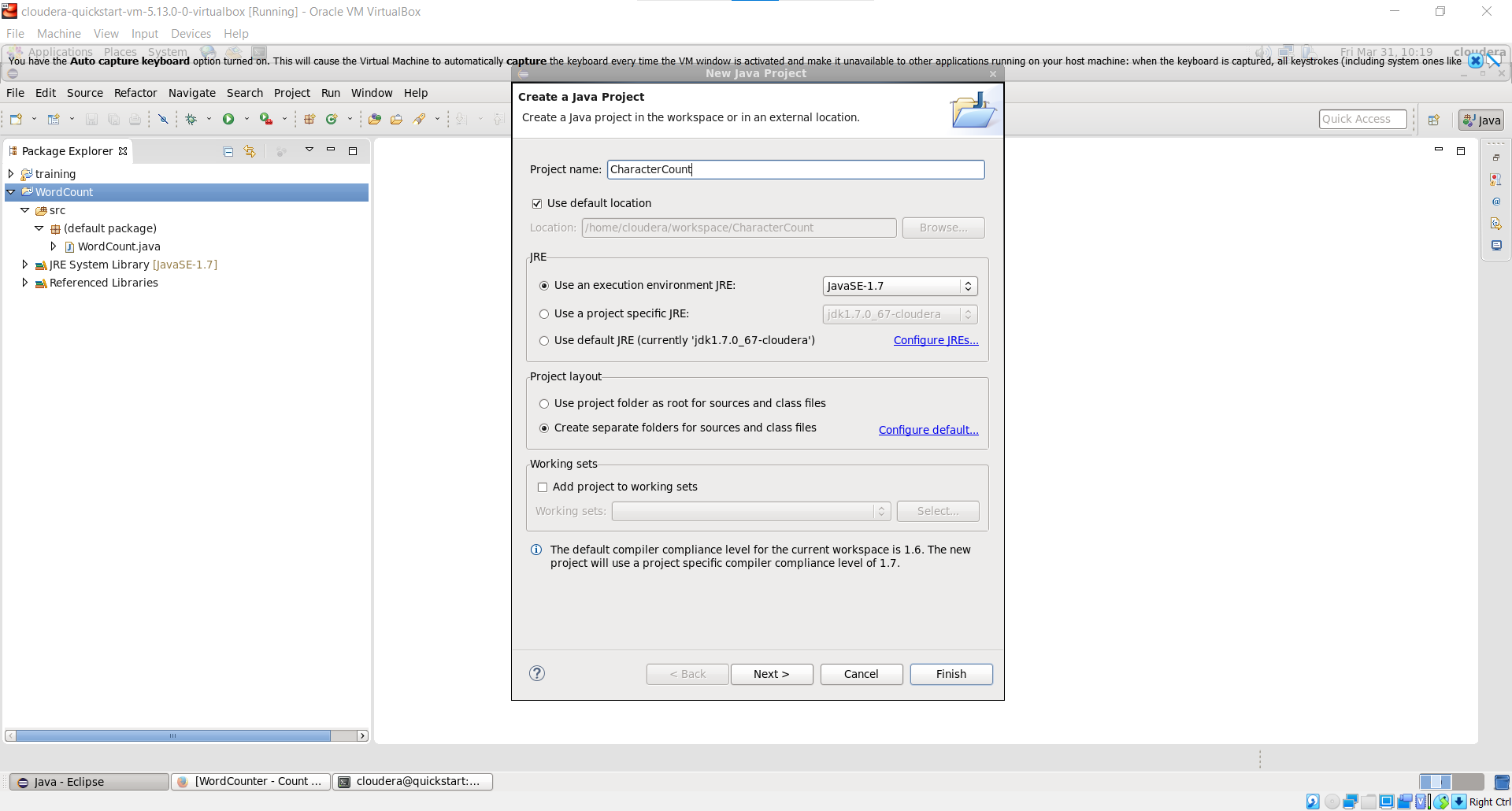
**Practical 3**

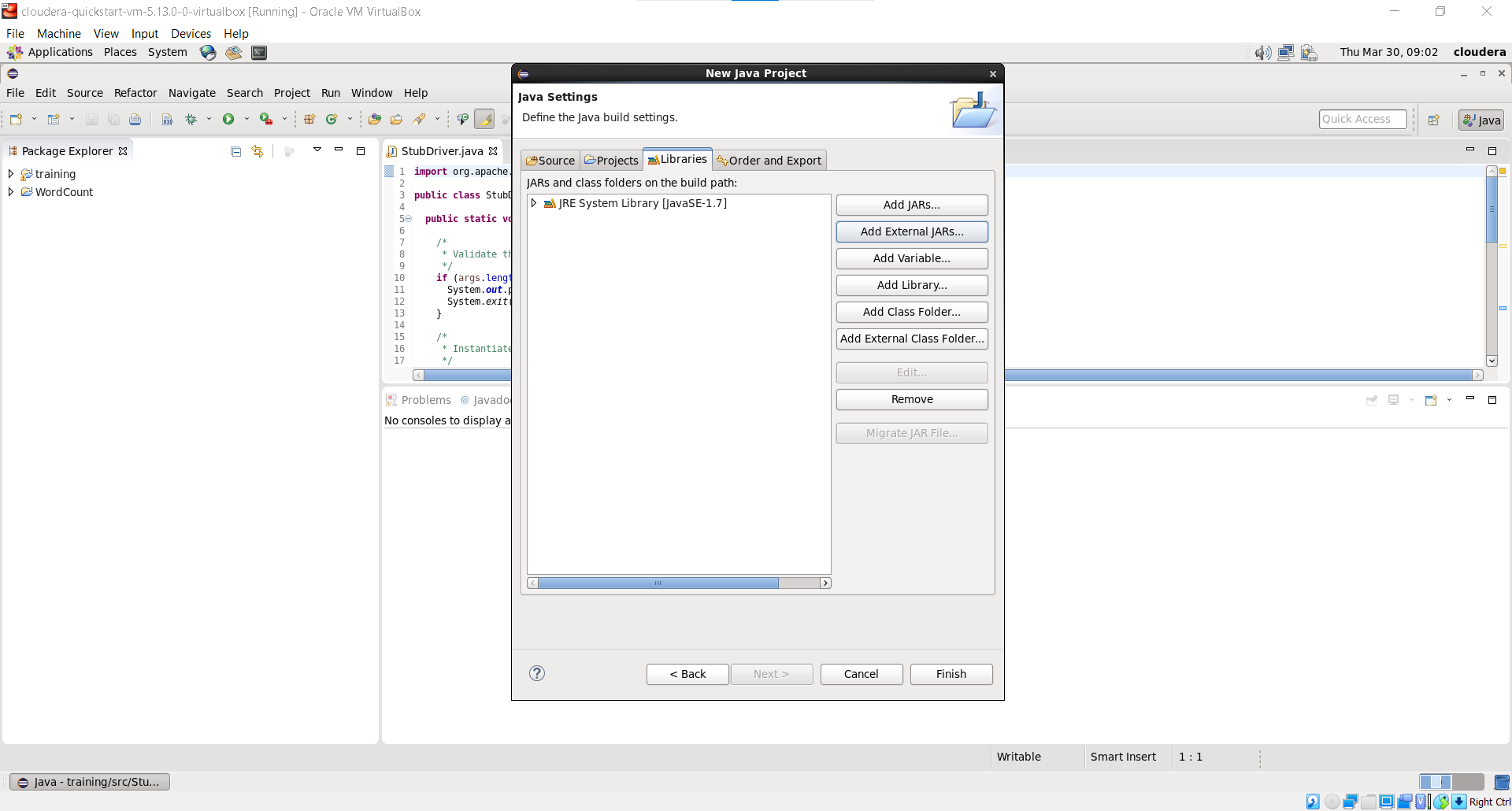
**Aim: Character Counting Application using Python and MapReduce**

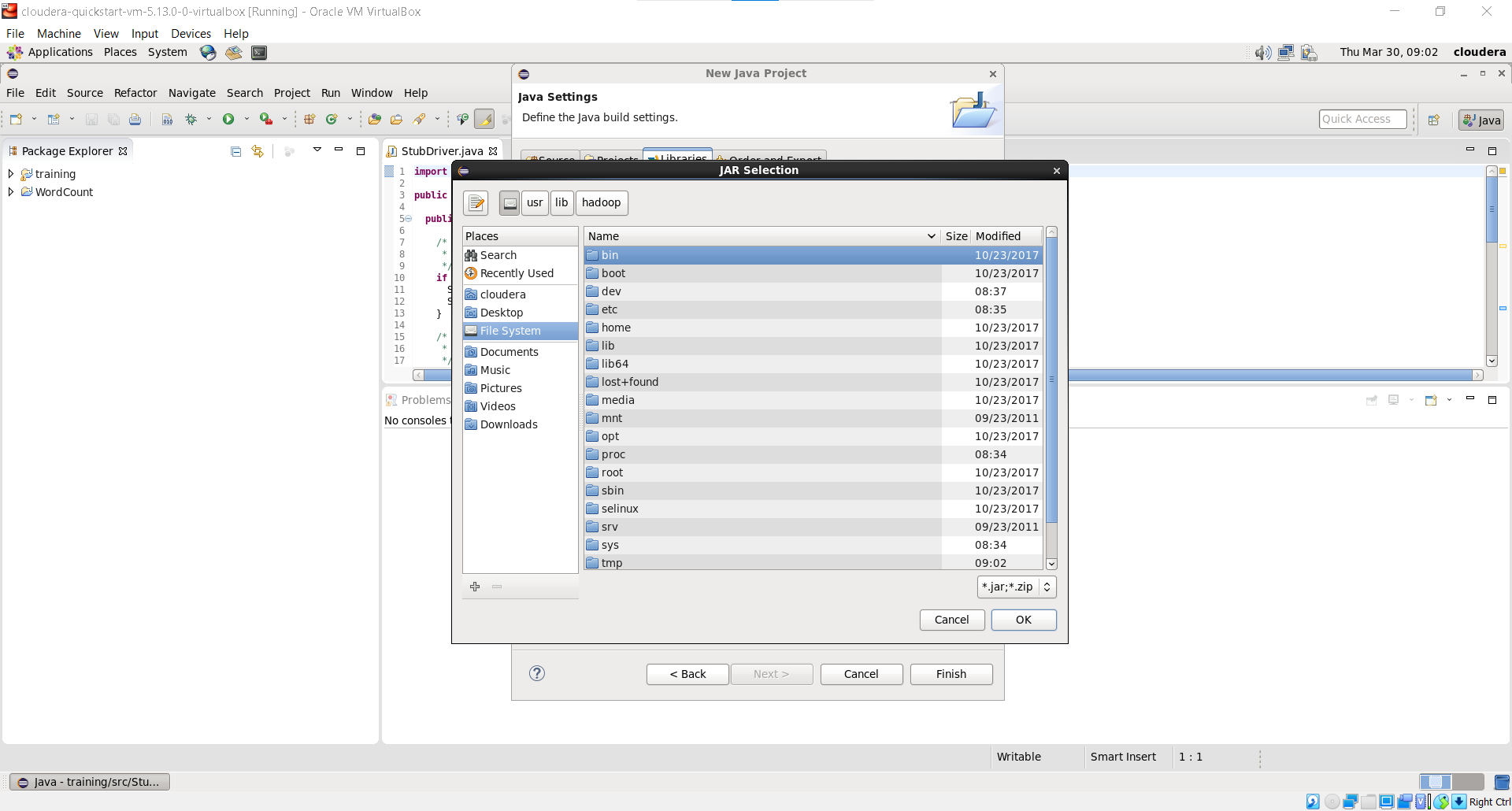
**Steps:**

1. File -> New -> Java Project -> Name: CharacterCount

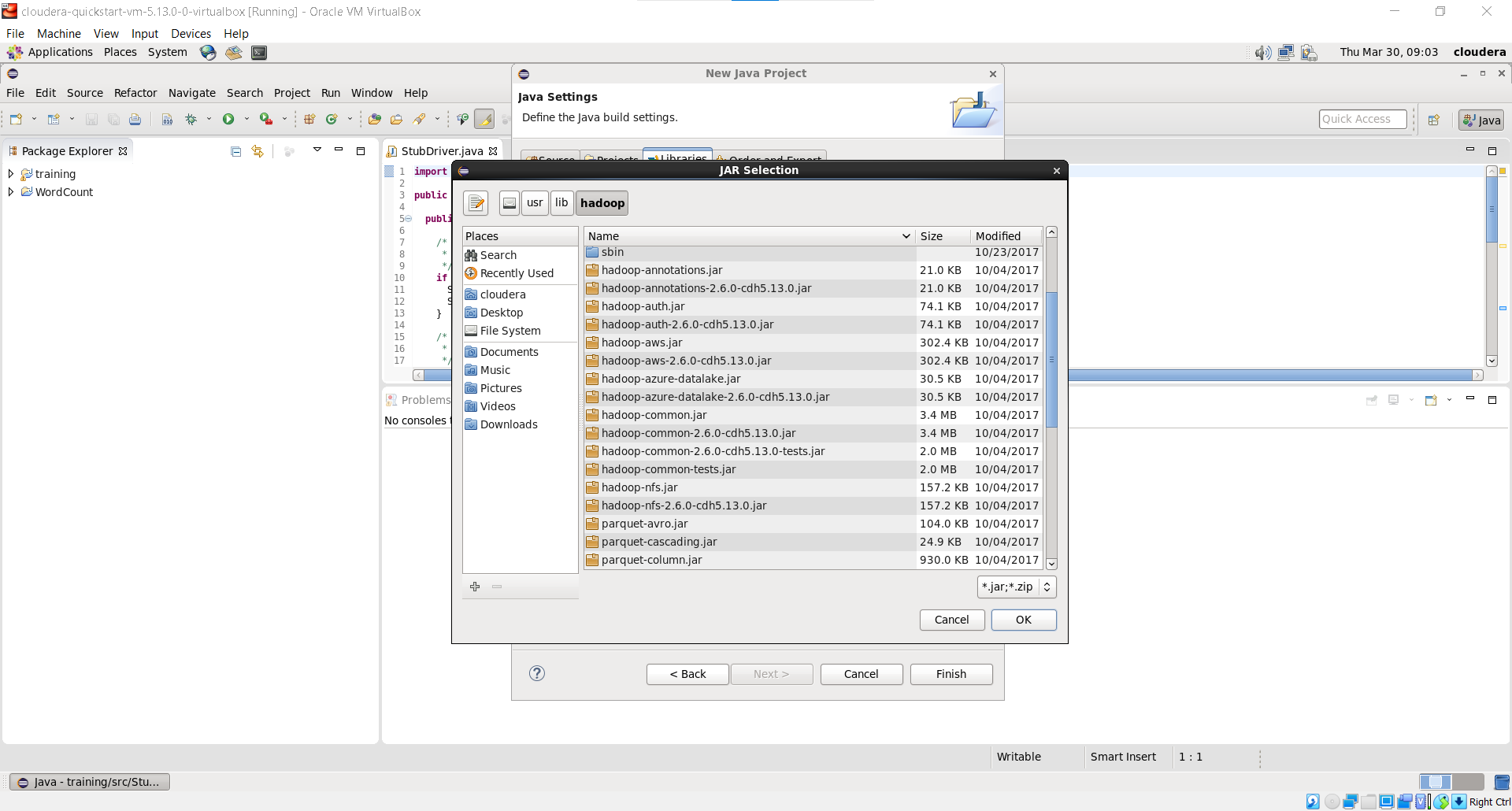


1. Add Hadoop Libraries to the Project

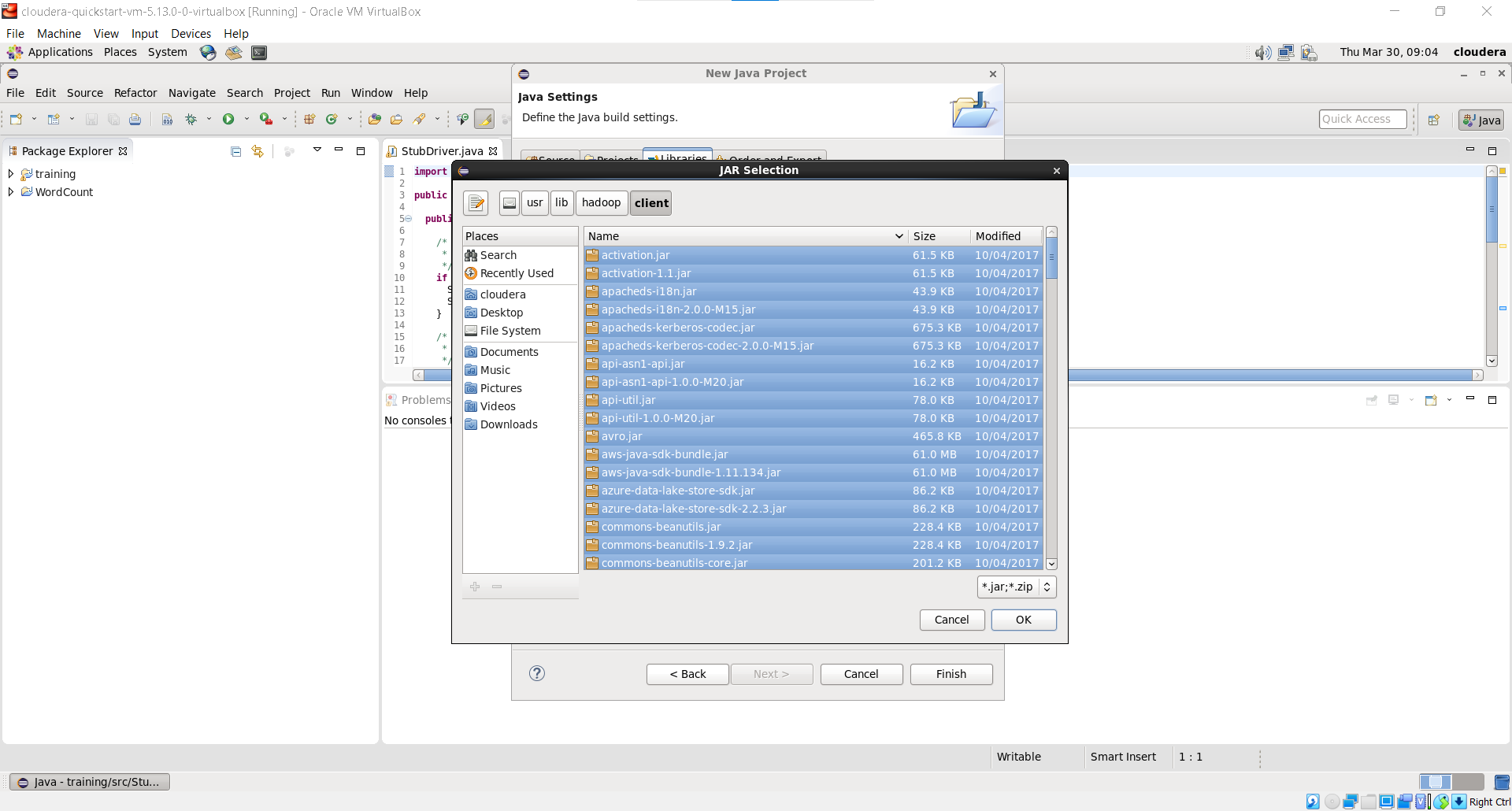




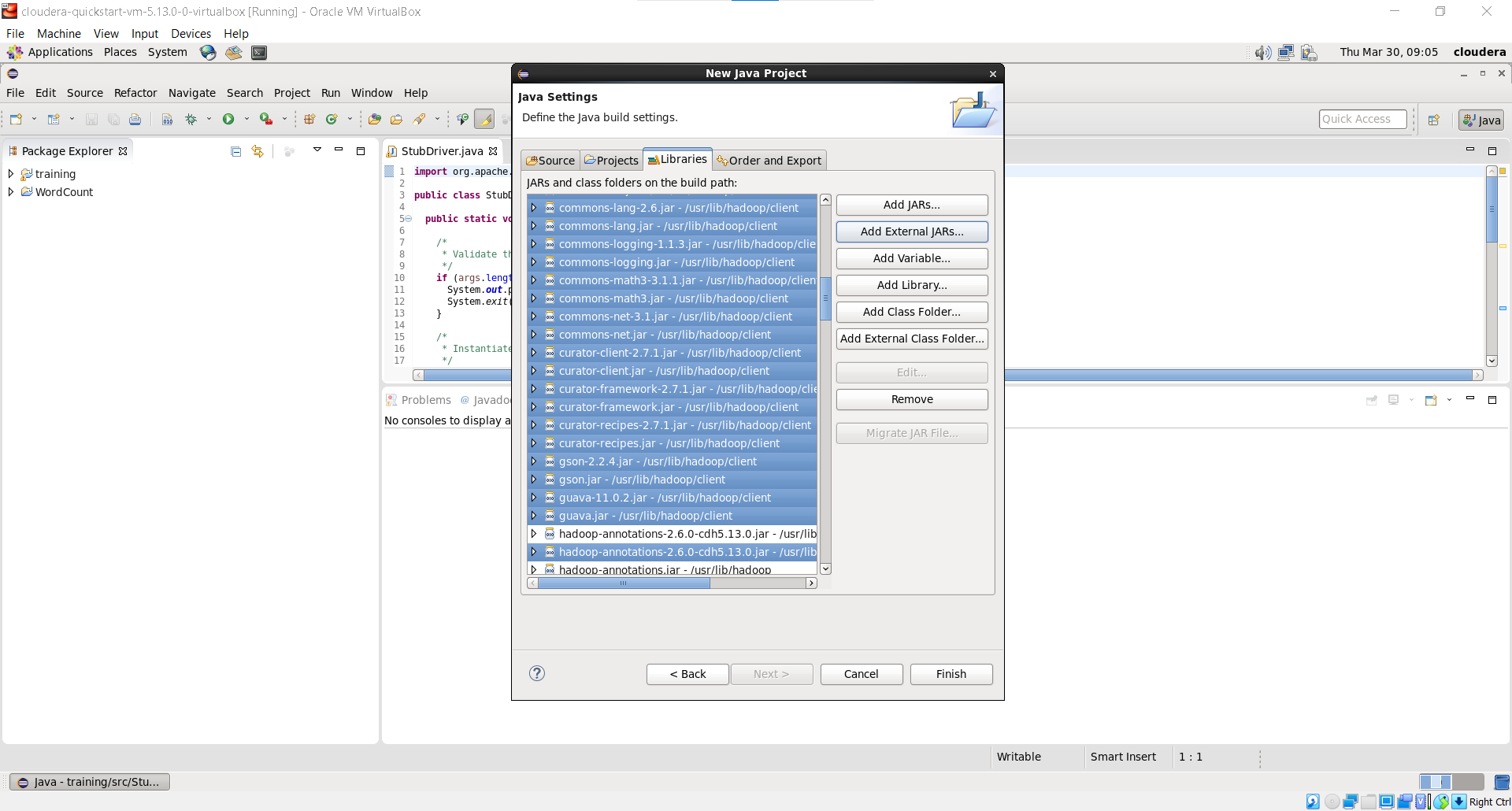
1. JAR Files -> usr/lib/hadoop/



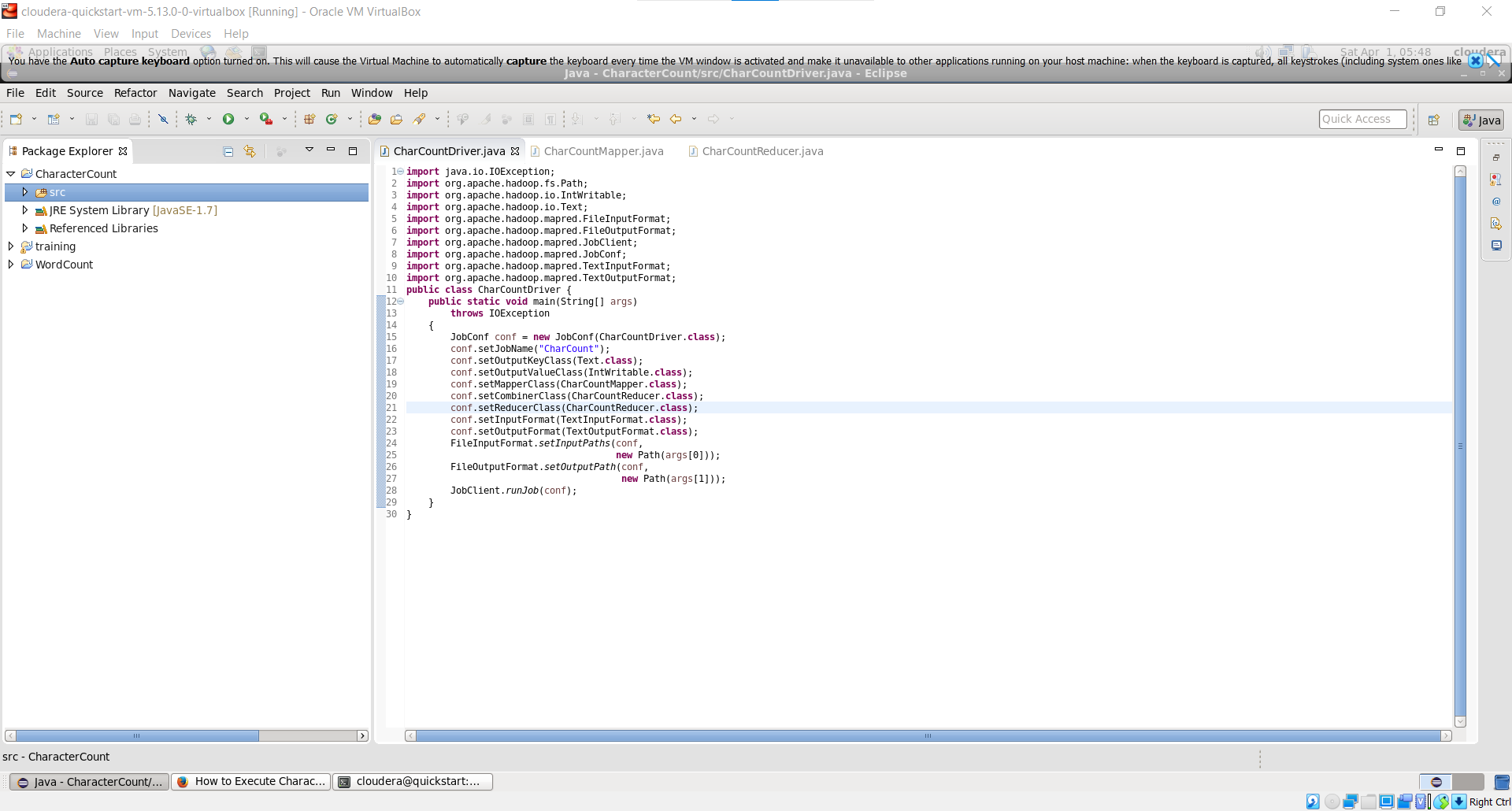
1. JAR File -> usr/lib/hadoop/client



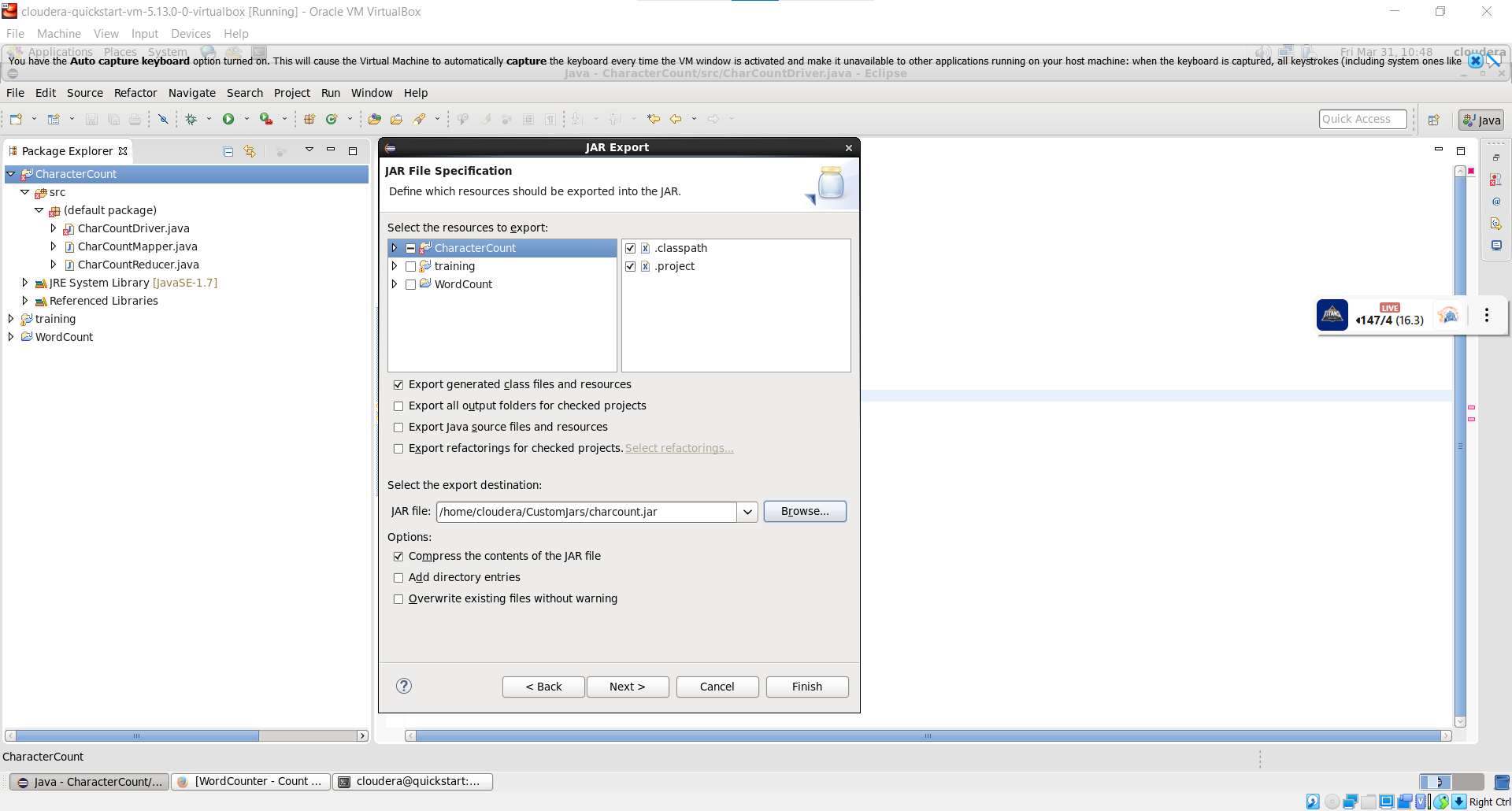
1. Added All Jar Files



1. Create Classes: Right Click on Project -> New -> Class
   1. CharCountDriver (Main Function)
   2. CharCountMapper
   3. CharCountReducer

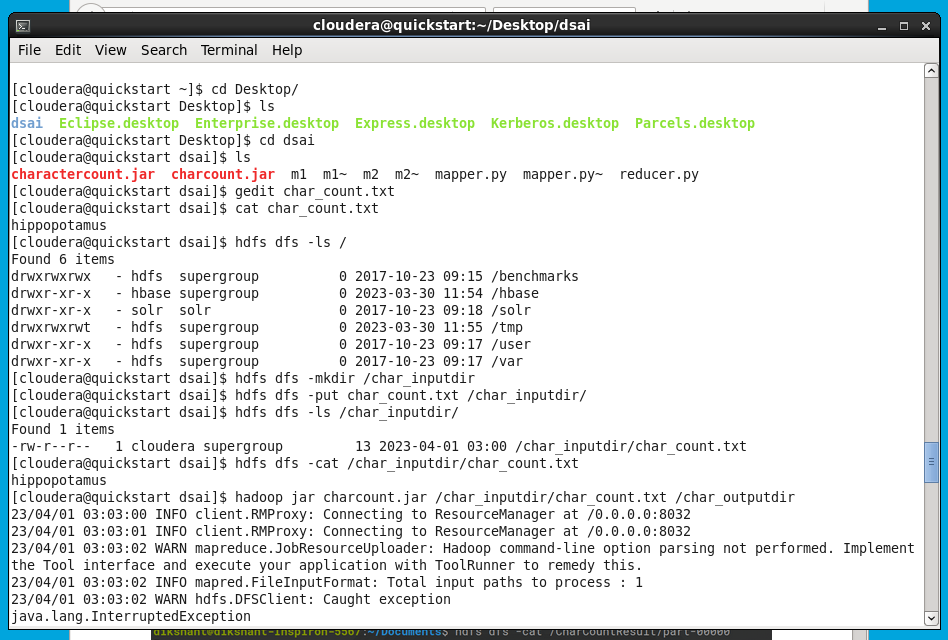


1. Right Click on Project -> Export -> JAR File -> Next (Export destination for JAR file)



1. Write following commands in terminal

* cd Desktop
* cd dsai
* ls
* pwd
* gedit char\_count.txt
* cat char\_count.txt
* hdfs dfs -ls /
* hdfs dfs -put char\_count.txt /char\_inputdir/
* hdfs dfs -ls /char\_inputdir
* hdfs dfs -cat /char\_inputdir/char\_count.txt
* hadoop jar charcount.jar /char\_inputdir/char\_count.txt /char\_outputdir



* hdfs dfs -ls /
* hdfs dfs -ls /char\_outputdir
* hdfs dfs -cat /char\_outputdir/part-00000

