ROLL NUMBER: 210701126

M-] To Bracket ^O Where Was

EXP NO: 3 MAP REDUCE PROGRAM TO PROCESS A WEATHER DATASET

\$cd DA-Lab \$mkdir exp3 \$cd exp3

\$nano dataset.txt

Snano mapper.py

Activities © Terminal Sep 9 11:42

| Image: | Ima

Read 21 lines]

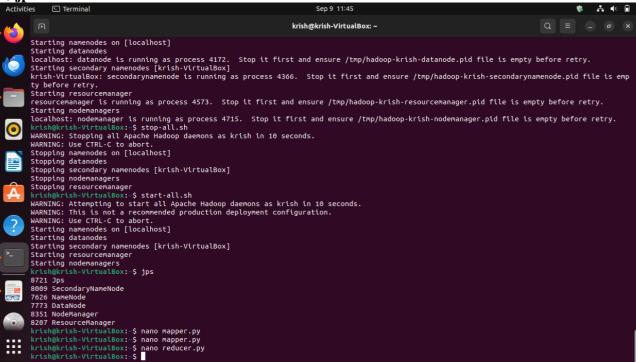
^C Location ^/ Go To Line

\$nano reducer.py Terminal Sep 9 11:45 krish@krish-VirtualBox: ~ Q = - 0 GNU nano 6.2 reducer.py from operator import itemgetter import sys #SHUTTLE WILL ENSURE
current_month = None
current_max = 0
month = None 0 for line in sys.stdin: line = line.strip() month, daily_max = line.split('\t', 1) daily_max = float(daily_max)
except ValueError: if current_month == month:
 if daily_max > current_max:
 current_max = daily_max tf current_month: print ('%s\t%s' % (current_month, current_max))
current_max = datly_max
current_month = month

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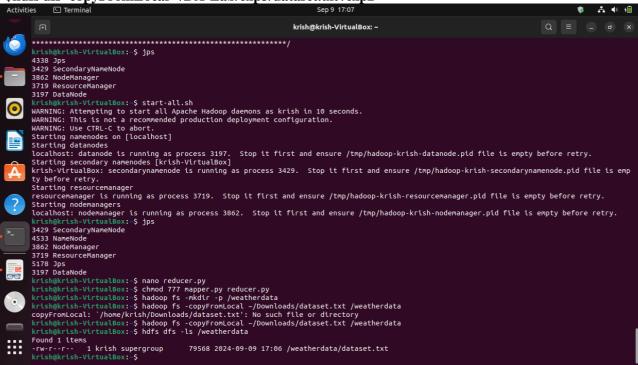
\$start-all.sh

\$ jps



\$hdfs dfs -mkdir /exp3

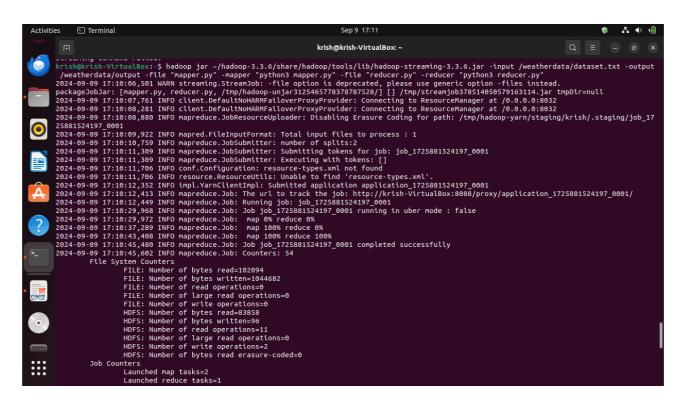
\$hdfs dfs -copyFromLocal ~/DA-Lab/exp3/dataset.txt /exp2



\$chmod 777 mapper.py reducer.py

\$hadoop jar \$HADOOP_STREAMING -input /exp3/dataset.txt -output /exp3/output -mapper ~/DA-Lab/exp3/mapper.py -reducer ~/DA-Lab/exp3/reducer.py

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\$hdfs dfs -cat /exp3/output/*

