Manual

- 1. First you must go to hadoop direction by using this command in terminal cd \$HADOOP HOOM
- 2. Start hadoop by using this command sbin/start-all.sh
- 3. make direction in hdfs (hadoop distributed file system) by using this command hadoop dfs -mkdir -p ____ => the path you want to make
- 4. put your files you will work on it in the direction you make by using this command hadoop dfs -put the file path the path you make in last step (Note)between the file path and the path in hdfs you must put a space (Note)you have to files you must this command two times to put them
- 5. Now we can run the job by using this command hadoop jar /usr/local/hadoop-2.8.1/share/hadoop/tools/lib//hadoop-streaming-2.8.1.jar \ -input the path of file you work in the hadoop dfs \
 - -output a direction you make and should not exist \
 - -file the mapper file direction \
 - -mapper the mapper direction \
 - -file the reducer direction \
 - -reducer the reducer direction
 - (Note) you have two file input enter the files paths separated by sapce
- 6. Now we have output file after run the last step it will be the input for this step hadoop jar /usr/local/hadoop-2.8.1/share/hadoop/tools/lib//hadoop-streaming-2.8.1.jar \ -input the path of the output in the last step \
 - -output a direction you make and should not exist \
 - -file the mapper2 file direction \
 - -mapper the mapper2 direction \
 - -file the reducer2 direction \
 - -reducer the reducer2 direction
- 7. open you browser and enter localhost:50070
- 8. go to Utilities => browse the file system and search for the output file from the last command and download (part-00000)

Test code

cd \$HADOOP_HOME

sbin/start-all.sh

hadoop dfs -mkdir -p /user/abdallah/task2

hadoop dfs -put /home/abdallah/PycharmProjects/osTask2/user.txt /user/abdallah/task2 hadoop dfs -put /home/abdallah/PycharmProjects/osTask2/item.txt /user/abdallah/task2 hadoop jar /usr/local/hadoop-2.8.1/share/hadoop/tools/lib//hadoop-streaming-2.8.1.jar \

- -input /user/abdallah/task2/user.txt /user/abdallah/task2/item.txt \
- -output /user/abdallah/output \
- -file /home/abdallah/PycharmProjects/osTask2/mapper.py \
- -mapper /home/abdallah/PycharmProjects/osTask2/mapper.py \
- -file /home/abdallah/PycharmProjects/osTask2/reducer.py \
- -reducer /home/abdallah/PycharmProjects/osTask2/reducer.py

hadoop jar /usr/local/hadoop-2.8.1/share/hadoop/tools/lib//hadoop-streaming-2.8.1.jar

- -input /user/abdallah/output/part-00000
- -output /user/abdallah/output2
- -file /home/abdallah/PycharmProjects/osTask2/mapper2.py
- -mapper /home/abdallah/PycharmProjects/osTask2/mapper2.py
- -file /home/abdallah/PycharmProjects/osTask2/reducer2.py
- -reducer /home/abdallah/PycharmProjects/osTask2/reducer2.py