

Verification of Task#2

First create the directory as mentioned in the manual

After running hadoop & check if the whole service is on

```
ahmedsaied@ubuntu: /usr/local/hadoop-2.8.1
ahmedsaied@ubuntu:/usr/local/hadoop-2.8.1$ sbin/start-all.shThis script is Deprecated.
Instead use start-dfs.sh and start-yarn.sh
17/12/16 22:45:48 WARN util.NativeCodeLoader: Unable to load native-hadoop library for
your platform... using builtin-java classes where applicable
Starting namenodes on [localhost]
localhost: starting namenode, logging to /usr/local/hadoop-2.8.1/logs/hadoop-ahmedsaie
d-namenode-ubuntu.out
localhost: starting datanode, logging to /usr/local/hadoop-2.8.1/logs/hadoop-ahmedsaie
d-datanode-ubuntu.out
Starting secondary namenodes [0.0.0.0]
0.0.0.0: starting secondarynamenode, logging to /usr/local/hadoop-2.8.1/logs/hadoop-ah
medsaied-secondarynamenode-ubuntu.out
17/12/16 22:46:05 WARN util.NativeCodeLoader: Unable to load native-hadoop library for
your platform... using builtin-java classes where applicable
Starting yarn daemons
Starting resourcemanager, logging to /usr/local/hadoop-2.8.1/logs/yarn-ahmedsaied-reso
urcemanager-ubuntu.out
localhost: starting nodemanager, logging to /usr/local/hadoop-2.8.1/logs/yarn-ahmedsai
ed-nodemanager-ubuntu.out
ahmedsaied@ubuntu:/usr/local/hadoop-2.8.1$ jps
1162 SecondaryNameNode
3783 NameNode
3928 DataNode
4793 Jps
4333 ResourceManager
4461 NodeManager
ahmedsaied@ubuntu:/usr/local/hadoop-2.8.1$
```

Make directory named with test101

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Browse Directory

Show entries
Search:

Permission	Owner	Group	Size	Last Modified	Replication	Block Size	Name
No data available in table							

Showing 0 to 0 of 0 entries

Hadoop, 2017.

Put the files in that directory

```

your platform... using builtin-java classes where applicable
ahmedsaied@ubuntu:/usr/local/hadoop-2.8.1$ hadoop dfs -put ~/task2hadoop/job1/User.txt
/usr/ahmedsaied/test101
DEPRECATED: Use of this script to execute hdfs command is deprecated.
Instead use the hdfs command for it.

17/12/16 22:53:45 WARN util.NativeCodeLoader: Unable to load native-hadoop library for
your platform... using builtin-java classes where applicable
ahmedsaied@ubuntu:/usr/local/hadoop-2.8.1$ hadoop dfs -put ~/task2hadoop/job1/Transact
ion.txt /usr/ahmedsaied/test101
DEPRECATED: Use of this script to execute hdfs command is deprecated.
Instead use the hdfs command for it.

17/12/16 22:53:57 WARN util.NativeCodeLoader: Unable to load native-hadoop library for
your platform... using builtin-java classes where applicable
ahmedsaied@ubuntu:/usr/local/hadoop-2.8.1$

```

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Browse Directory

Show entries
Search:

Permission	Owner	Group	Size	Last Modified	Replication	Block Size	Name
-rw-r--r--	ahmedsaied	supergroup	21.23 KB	Dec 16 22:53	1	128 MB	Transaction.txt
-rw-r--r--	ahmedsaied	supergroup	37.33 KB	Dec 16 22:53	1	128 MB	User.txt

Showing 1 to 2 of 2 entries

Hadoop, 2017.

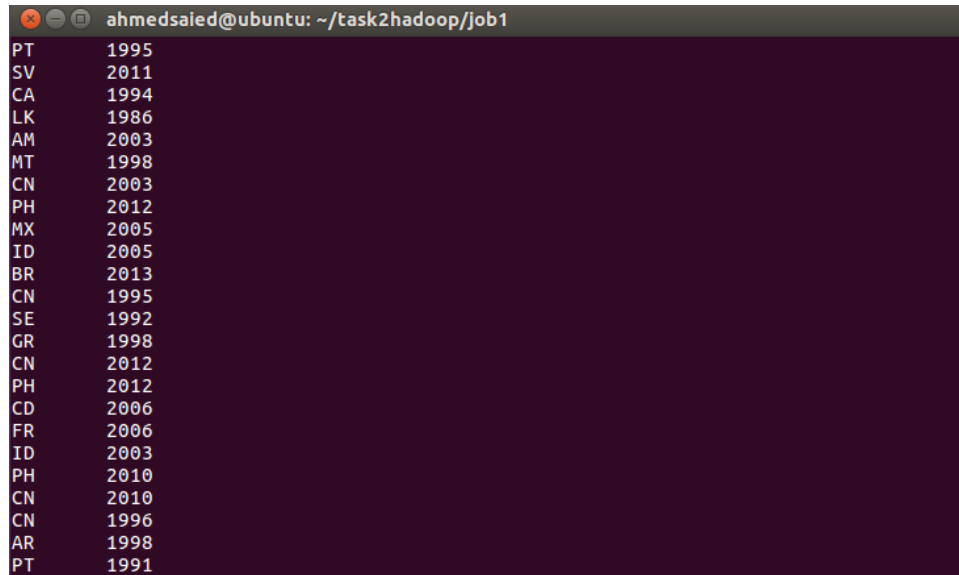
Run the mapper and reducer on those files

```

ahmedsaied@ubuntu:/usr/local/hadoop-2.8.1$ hadoop jar /usr/local/hadoop-2.8.1/sh
are/hadoop/tools/lib/hadoop-streaming-2.8.1.jar -input /usr/ahmedsaied/test101/*
-output /usr/ahmedsaied/test101/output -mapper ~/task2hadoop/job1/mapper.py -re
ducer ~/task2hadoop/job1/reducer.py

```

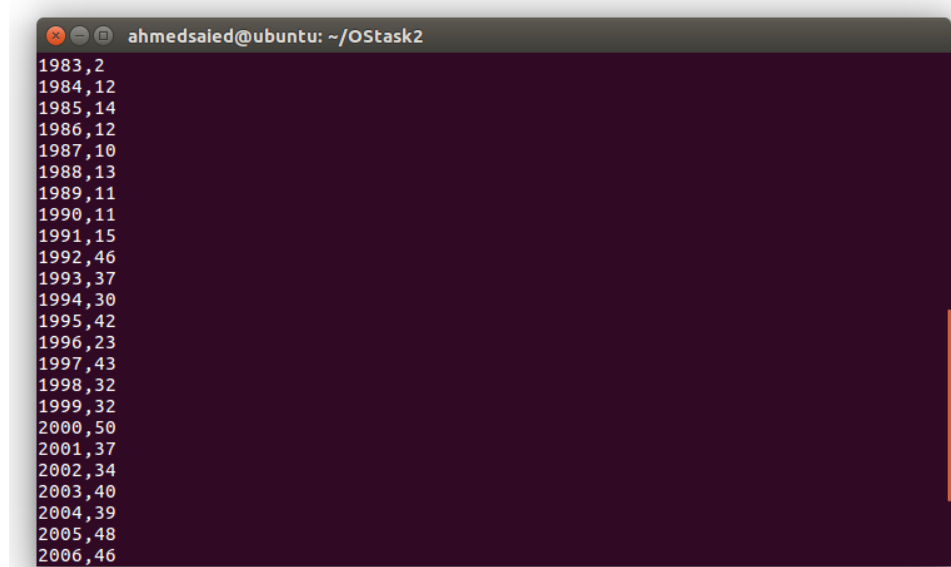
The result on terminal



A terminal window titled 'ahmedsaied@ubuntu: ~/task2hadoop/job1' displays a list of country codes and years. The data is as follows:

PT	1995
SV	2011
CA	1994
LK	1986
AM	2003
MT	1998
CN	2003
PH	2012
MX	2005
ID	2005
BR	2013
CN	1995
SE	1992
GR	1998
CN	2012
PH	2012
CD	2006
FR	2006
ID	2003
PH	2010
CN	2010
CN	1996
AR	1998
PT	1991

The result after running the second mapreduce



A terminal window titled 'ahmedsaied@ubuntu: ~/OStask2' displays a list of years and counts. The data is as follows:

1983	2
1984	12
1985	14
1986	12
1987	10
1988	13
1989	11
1990	11
1991	15
1992	46
1993	37
1994	30
1995	42
1996	23
1997	43
1998	32
1999	32
2000	50
2001	37
2002	34
2003	40
2004	39
2005	48
2006	46