1. Starting Hadoop Cluster

```
[/]$ cd /usr/local/hadoop/sbin
[/usr/local/hadoop/sbin]$ start-all.sh
WARNING: Attempting to start all Apache Hadoop daemons as hdoop in 10 seconds.
WARNING: This is not a recommended production deployment configuration.
WARNING: Use CTRL-C to abort.
Starting namenodes on [localhost]
Starting datanodes
Starting secondary namenodes [DESKTOP-72UO25C]
2020-12-08 23:10:37,345 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java clas
ses where applicable
Starting resourcemanager
Starting nodemanagers
[/usr/local/hadoop/sbin]$ jps
14546 NameNode
15315 NodeManager
14948 SecondaryNameNode
15159 ResourceManager
15671 Jps
14698 DataNode
```

2. Creating file for counting words of

```
[~]$ mkdir hadfiles
[~]$ cd hadfiles
[~/hadfiles]$ touch wordcountfile.txt
[~/hadfiles]$ nano wordcountfile.txt
```

3. Moving file to Hadoop File System

```
[/usr/local/hadoop]$ hadoop fs -mkdir /programs
```

```
[/usr/local/hadoop]$ hadoop fs -copyFromLocal /home/hdoop/hadfiles/wordcountfile.txt /programs/prog1.txt
```

4. Running wordcount.jar, which consists of wordcount$Map, wordcount$Reduce, and wordcount classes

```
[~/hadfiles]$ hadoop jar /home/hdoop/hadfiles/wordcount.jar WordCount /programs/prog1.txt /programs/output/
```

5. Output received

```
~/hadfiles
☺  hadoop fs -ls /programs/output
Found 2 items
-rw-r--r--   1 hdoop supergroup          0 2020-12-08 23:36 /programs/output/_SUCCESS
-rw-r--r--   1 hdoop supergroup         69 2020-12-08 23:36 /programs/output/part-r-00000

~/hadfiles
☺  hadoop fs -cat /programs/output/part-r-00000
are     1
brother 1
family  1
hi      1
how     5
is      4
job     1
sister  1
you     1
your    4
```

6. Stopping Hadoop

```
~/hadfiles
☺   stop-all.sh
```