

Step 1: Prepare the code

1) create file:

wordcount :

- WordCountDriver.java
- WordCountMapper.java
- WordCountReducer.java

```
cd C:\hadoop-3.3.6\wordcount_java
```

2) Compile the java code

```
javac -classpath  
C:\hadoop-3.3.6\share\hadoop\common\*;C:\hadoop-3.3.6\share\hadoop\mapreduce\* -d .  
WordCountMapper.java WordCountReducer.java WordCountDriver.java
```

3) Créer un fichier JAR

```
jar -cvf wordcount.jar WordCountDriver.class WordCountMapper.class  
WordCountReducer.class
```

Step 2: Prepare the HDFS

1)make dir in hdfs

```
hadoop fs -mkdir -p /user_java/input
```

2) Add Input file to HDFS

```
hadoop fs -put input.txt /user_java/input/input.txt
```

3)Verify that the file are added to HDFS :

```
hadoop fs -ls /user_java/input
```

4)Execute job MapReduce

```
hadoop jar wordcount.jar WordCountDriver /user_java/input /user_java/output
```

Step 3 : Finally Verify The result

1) Show the results in HDFS

```
hadoop fs -cat /user_java/output/part-r-00000
```

2) Download the result in local machine

```
hadoop fs -get /user_java/output/part-r-00000 output.txt
```

ERROR

Manage the Errors if the dir already exists in HDFS you should absolutely delete it

```
hadoop fs -rm -r /user_java/output
```

```
hadoop jar wordcount.jar WordCountDriver /user_java/input /user_java/output
```

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