# **Exercise 03: Stop Word Elimination using Map Reduce**

Previous exercise described how to count repeated words in the input file. This exercise practice the students to do MapReduce process using word counting application with elimination words.

## **Prerequisites**

Ensure that Hadoop is installed, configured and is running. More details:

Single Node Setup for first-time users.

Cluster Setup for large, distributed clusters.

# **Inputs and Outputs**

i. Input file should be in :/wcsw/in00/

## data.txt

Copy the content text from Shakespeare.txt, Which is attached in Google classroom.

#### sw.txt

Add following elimination words into sw.txt file.

all

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our

Ι

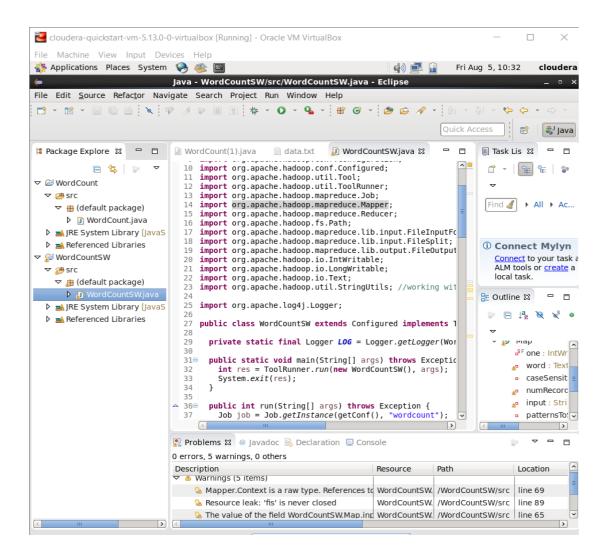
It

# ii. Output file should be in /wcsw/out00/

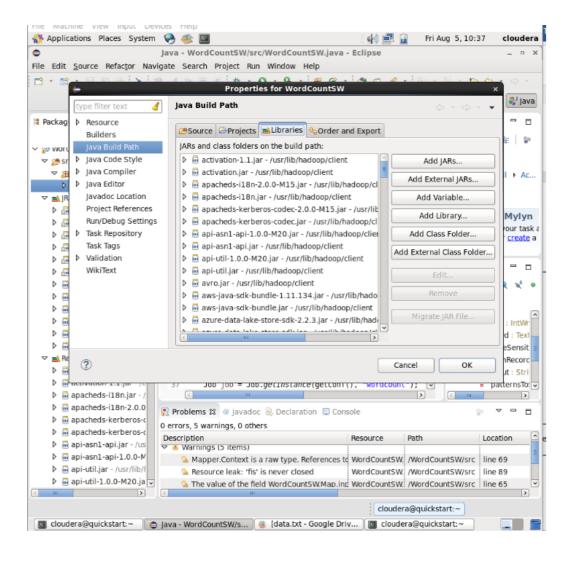
# Step 1

Compile WordCountSW.java and create a WordCountSW.jar:

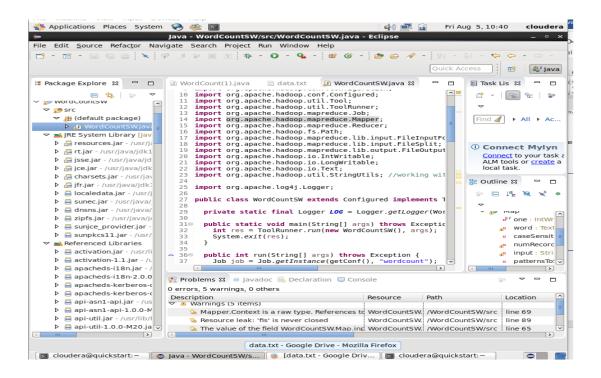
(i) Create WordCountSW.java project.



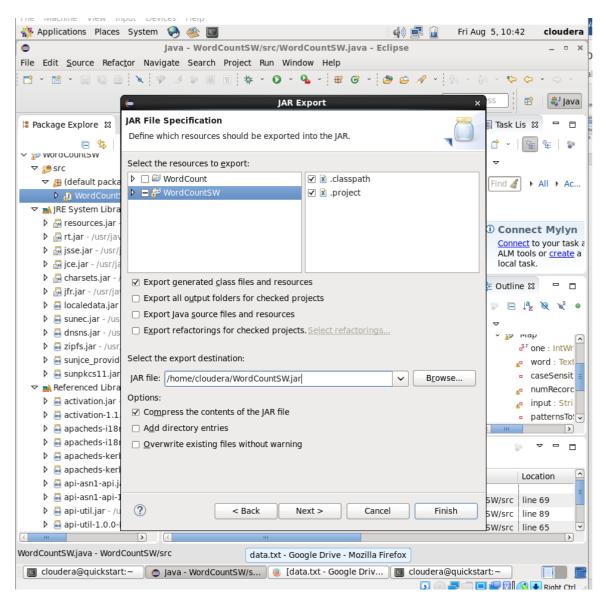
(ii) Import external .jar files



(iii) Create WordCount class file using Google classroom attached WordCount.java file.



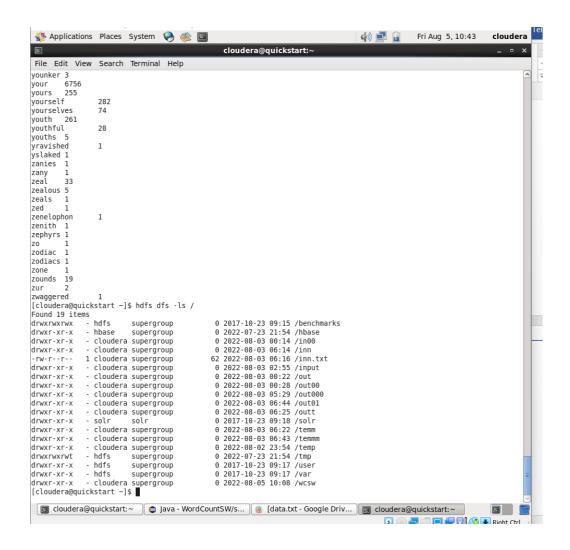
## (iv) Create WordCountSW.jar file



Step 2

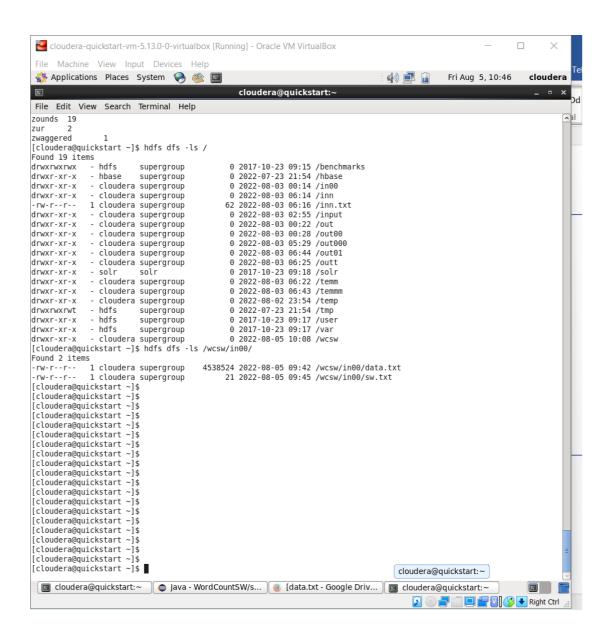
## Create following folders in HDFS:

- /wcsw/in00 input directory in HDFS
- /wcsw/out00 output directory in HDFS



#### Step 3

Create and copy data text-files into input folder:



#### Step-4

Create and copy sw text-files into input folder:

```
| Cloudera@quickstart ~ | hdfs dfs -ls /wcsw/in00/
| Found 2 items | Toloudera supergroup | 4538524 2022-08-05 09:42 /wcsw/in00/data.txt | cloudera supergroup | 21 2022-08-05 09:45 /wcsw/in00/sw.txt | Cloudera@quickstart ~ | $
```

[cloudera@quickstart ~]\$ hdfs dfs -ls /wcsw/in00/

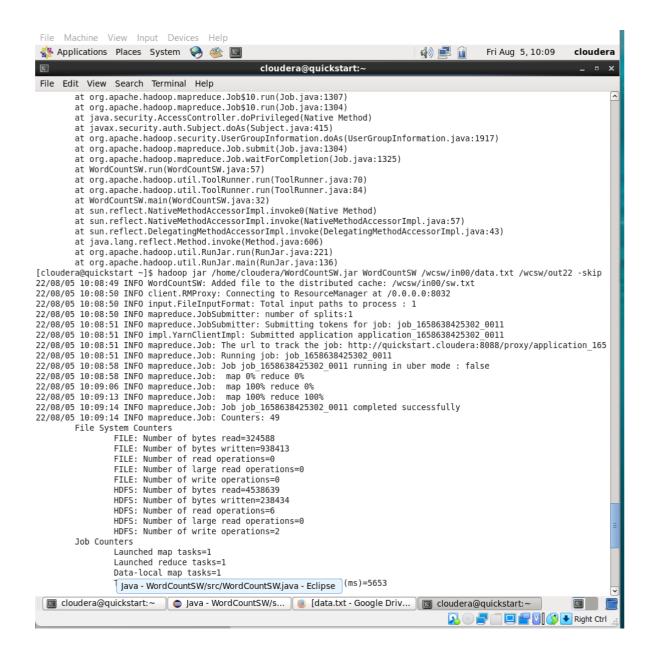
Found 2 items

#### Step 5

Run the MapReduce application with skip option:

[cloudera@quickstart ~]\$ hadoop jar /home/cloudera/WordCountSW.jar /wcsw/in00/data.txt /wcsw/out00/ -skip /wcsw/in00/sw.txt

Show MapReduce Framework



## Step 6

## Output:

[cloudera@quickstart ~]\$ hdfs dfs -ls /wcsw/out00/

#### Found 2 items

-rw-r--r- 1 cloudera supergroup 0 2021-08-24 07:05 /wcsw/out00/\_SUCCESS

-rw-r--r- 1 cloudera supergroup 2384 2021-08-24 07:05 /wcsw/out00/part-r-00000

[cloudera@quickstart ~]\$ hdfs dfs -cat/wcsw/out00/part-r-00000

