## WordCount using Spark in Java

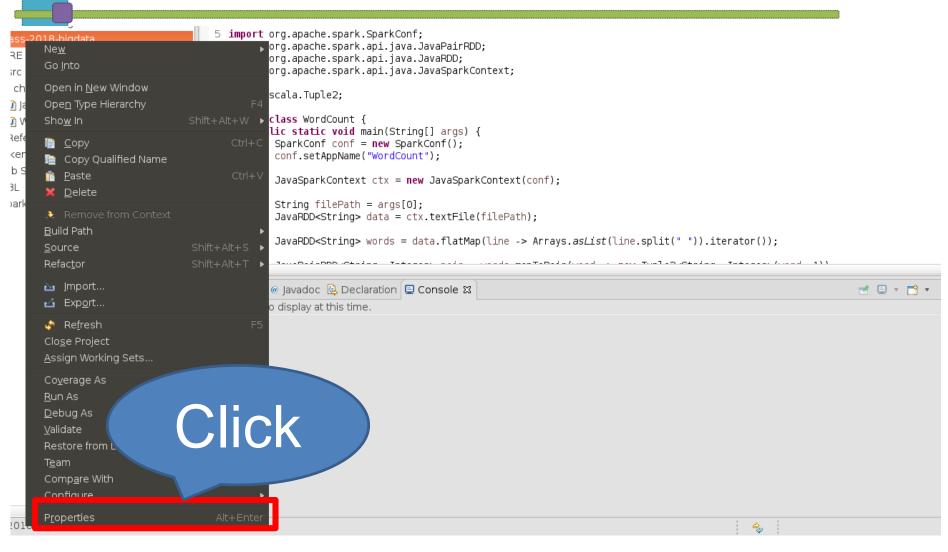
Step-by-Step

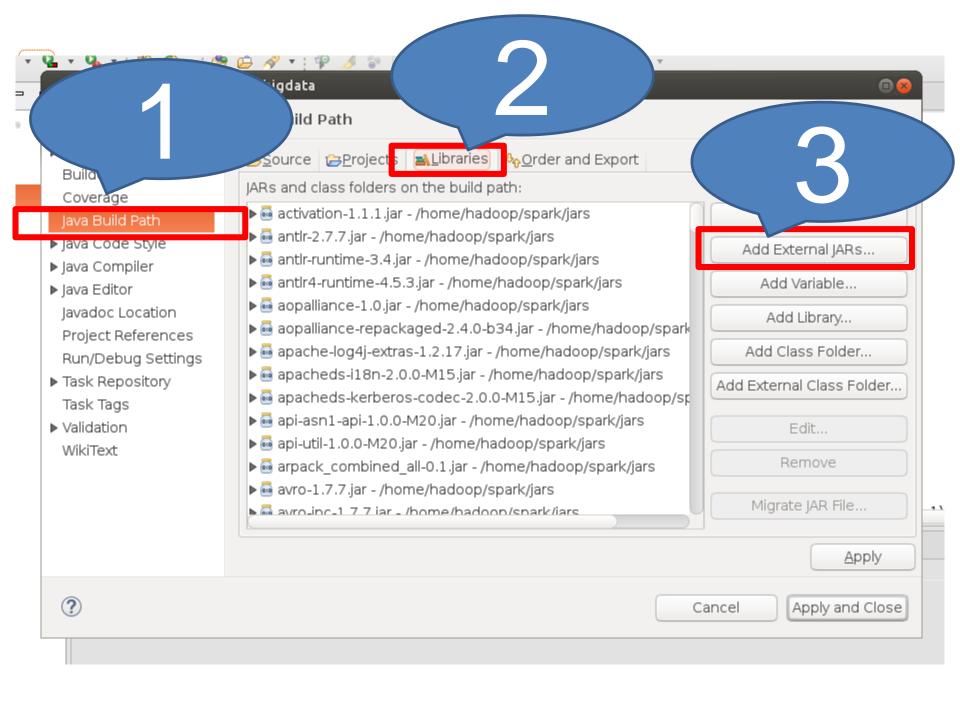
BigDataMiningLab.

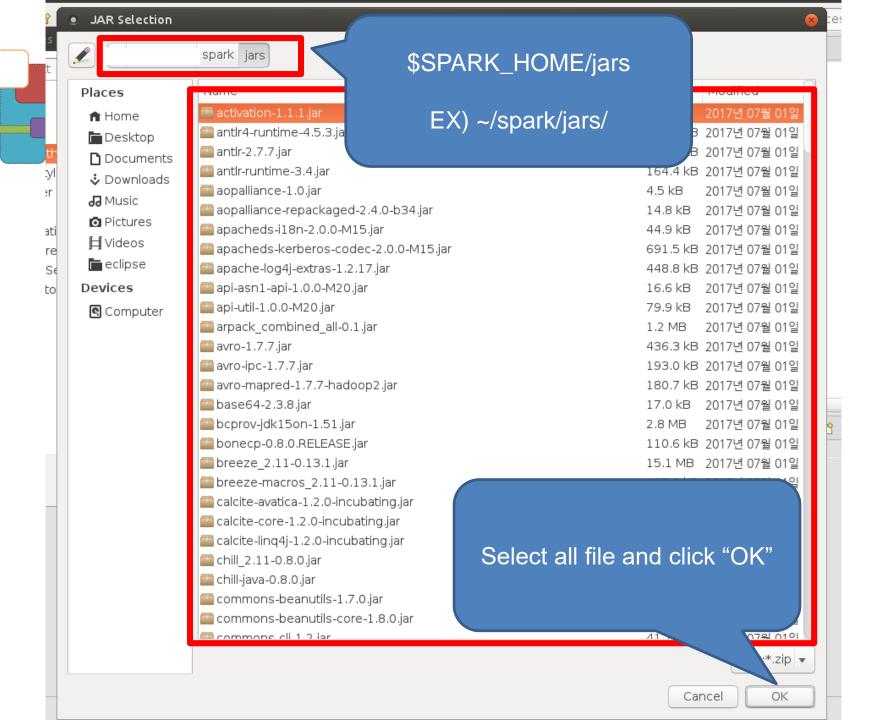


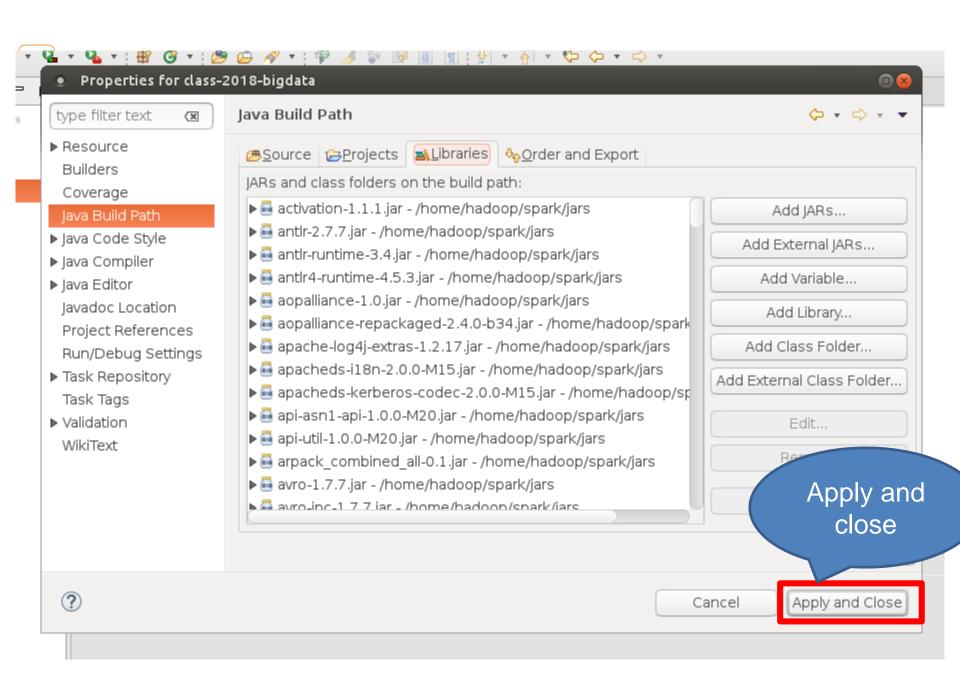
# Import Spark Libraries into Project

# Import Spark Libraries



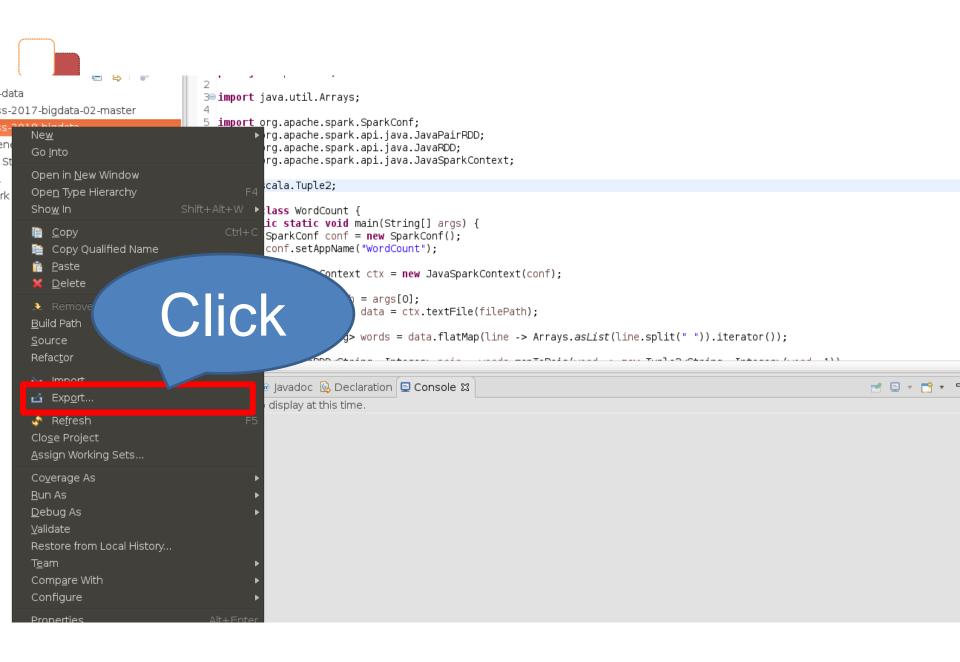


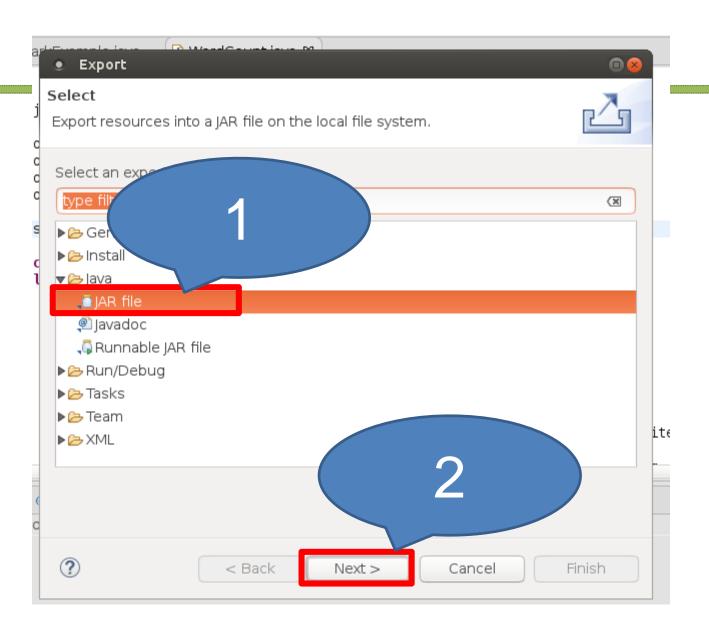


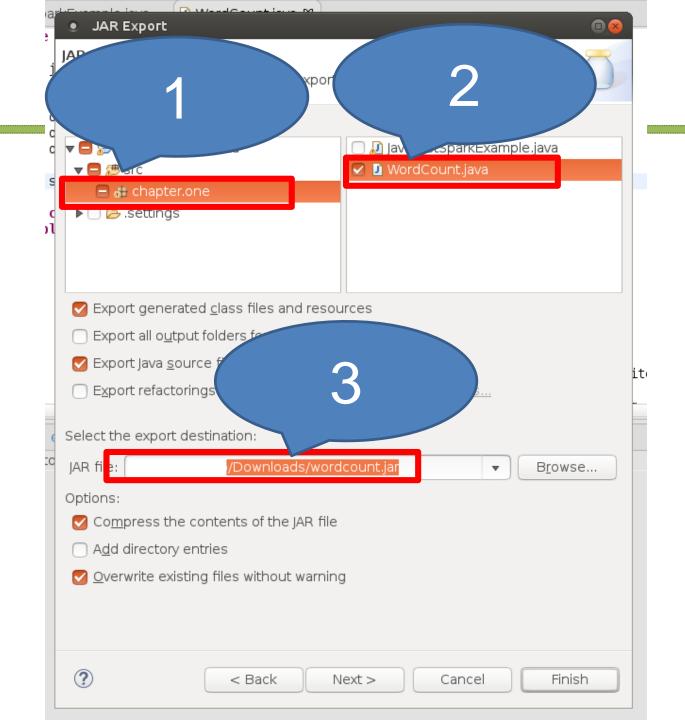




# Export "jar"









### Run WordCount

# \$SPARK\_HOME/sbin/start-all.sh

# Spark UI



#### Spark Master at spark:// localhost:7077

URL: spark://1

REST URL: spark: (cluster mode)

Alive Workers: 4

Cores in use: 32 Total, 0 Used

Memory in use: 58.4 GB Total, 0.0 B Used Applications: 0 Running, 0 Completed Drivers: 0 Running, 0 Completed

Status: ALIVE

Check where is spark running

#### Workers

Worker Id	Address	State	Cores	Memory
worker-20180906015228-		ALIVE	8 (0 Used)	22.5 GB (0.0 B Used)
worker-20180927161023-		ALIVE	8 (0 Used)	6.7 GB (0.0 B Used)
worker-20180927161156-		ALIVE	8 (0 Used)	6.7 GB (0.0 B Used)
worker-20180927161156-		ALIVE	8 (0 Used)	22.5 GB (0.0 B Used)

#### **Running Applications**

#### **Completed Applications**

Application ID	Name	Cores	Memory per Executor	Submitted Time	User	State	Duration

# Package name For default package, it should be empty. Ex) chapter.one.WordCount -> WordCount

Class name

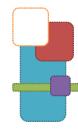
\$SPARK\_HOME/bin/spark-submit --class chapter.one. WordCount —
master spark://localhost:7077 File path
wordcount.jar

\$SPARK HOME/README.md

~/Downloads\$ ~/spark/bin/spark-submit --class chapter.one.WordCount --master spa :7077 wordcount.jar ~/spark/README.md

## Result

```
find
sc.parallelize(range(1000)).count()
contains
        4
you
project 1
Ρi
        1
protocols
                 1
that
        8
        3
or
high-level
                 1
name
Hadoop, 2
to
        17
available
                 1
core
(You
instance:
                 1
more
        3
see
of
tools
"local[N]"
                 2
programs
option 1
package.)
["Building
                 1
        1
must
and
        9
command,
system 1
Hadoop 3
```



If you have any question, please feel free to email TA (woongheelee@hanyang.ac.kr).

Make an appointment and visit the lab.