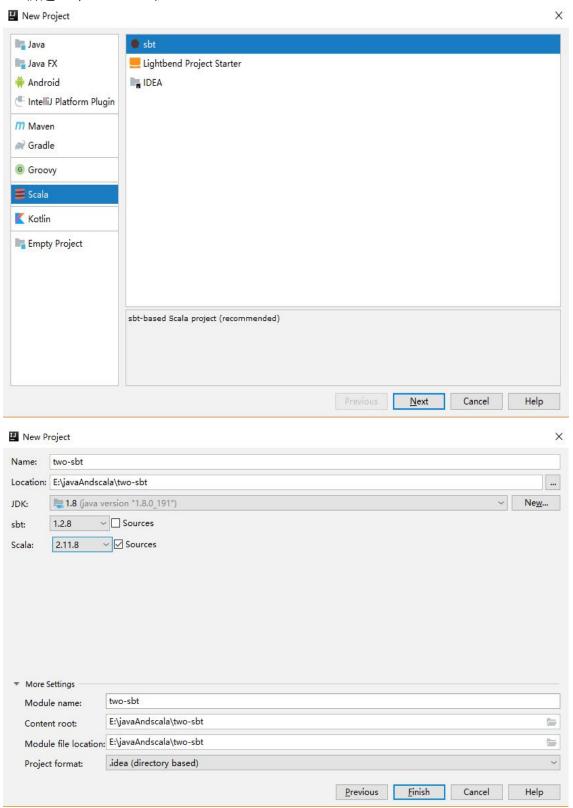
windows 下编写 spark 程序并运行

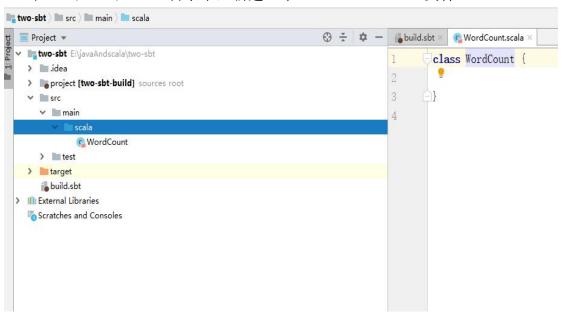
- 1. 打开 IDEA
- 2. 新建一个 scala 工程



注意: 1. scala sources 哪里选择对应的版本, 我选择的时 2. 11. 8

3. 编辑 build. sbt

4. 在 src/main/scala 目录下,新建一个 WordCount. scala 文件



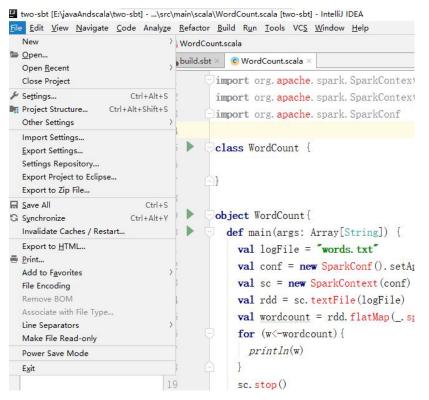
5. 输入以下代码

```
build.sbt × C WordCount.scala ×
 1
             import org. apache. spark. SparkContext
             import org. apache. spark. SparkContext. _
             import org. apache. spark. SparkConf
 4
 5
            class WordCount {
 6
 8
 9
             object WordCount {
10
                def main(args: Array[String]) {
                   val logFile = "words. txt"
                   val conf = new SparkConf().setAppName("Simple Application") .setMaster("local")
                   val sc = new SparkContext(conf)
14
                   val rdd = sc. textFile(logFile)
                   \mathbf{val} \ \ \mathbf{vordcount} = \mathbf{rdd}. \ \mathbf{flatMap}(\underline{\ \ } \mathbf{split}(\underline{\ \ \ \ \ }^*)). \ \mathbf{map}(\underline{\ \ \ } \mathbf{map}(\underline{\ \ \ } \mathbf{x},\underline{\ \ \ } \mathbf{x},\underline{\ \ \ } \mathbf{map}(\underline{\ \ \ } \mathbf{x})). \ \mathbf{map}(\underline{\ \ \ \ } \mathbf{x},\underline{\ \ \ } \mathbf{x},\underline{\ \ \ } \mathbf{x}))
                      println(w)
                   sc. stop()
```

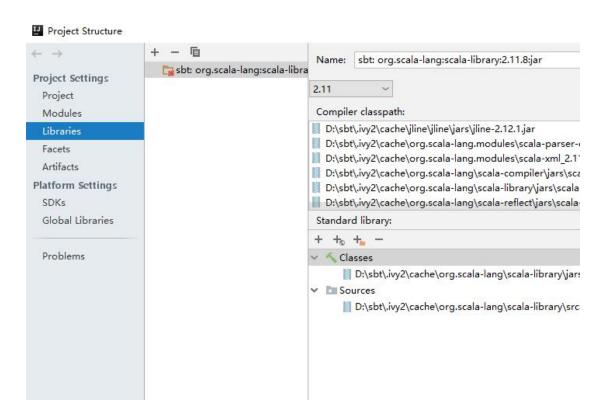
注意: 1.可以看到 SparkConf, SparkContext 等呈现的是红色,那是因为我们没用到相应的 jar 包导入

6. 导入 jar 包

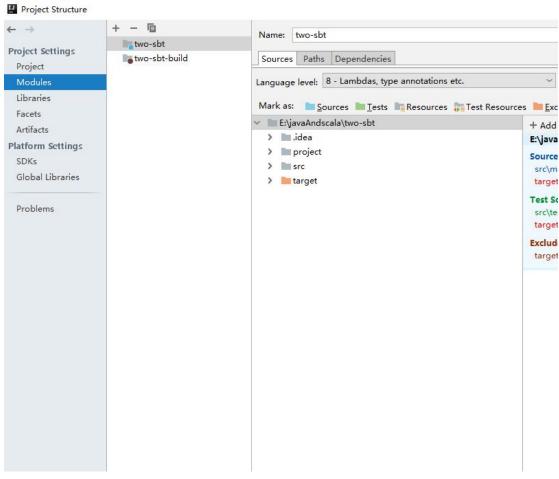
6.1 点击左上角的 file



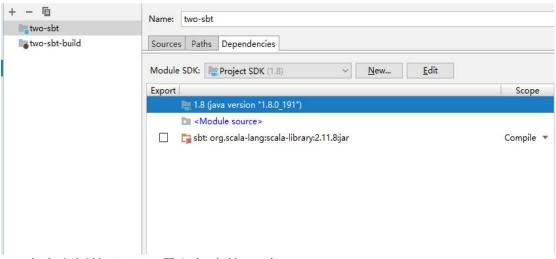
6.2 点击 project structure



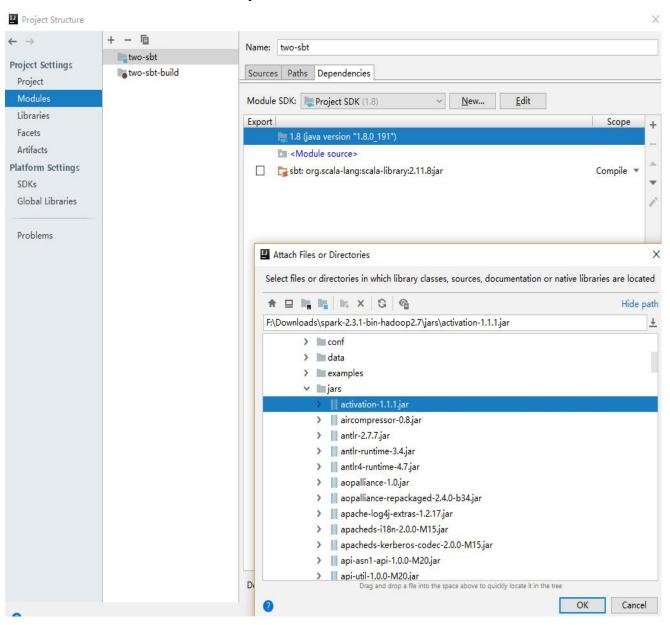
6.3 点击 Modules



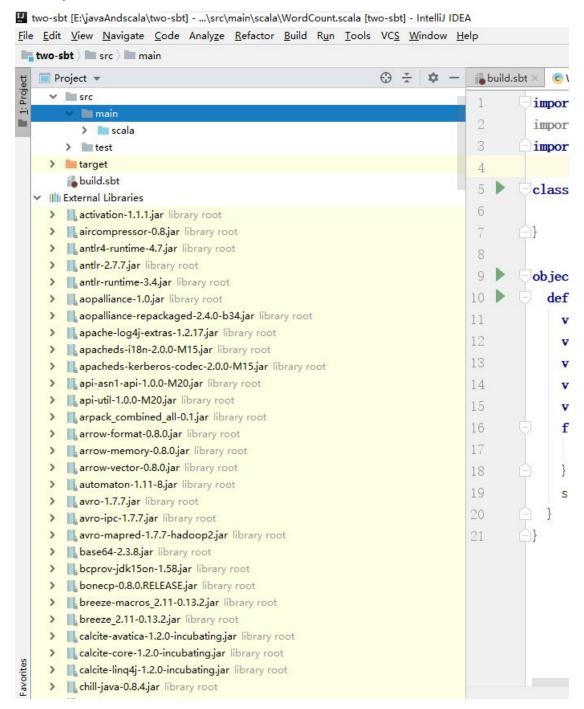
6.4 点击右侧的 dependencies



6.5 点击右侧的"+",导入相应的 jar 包



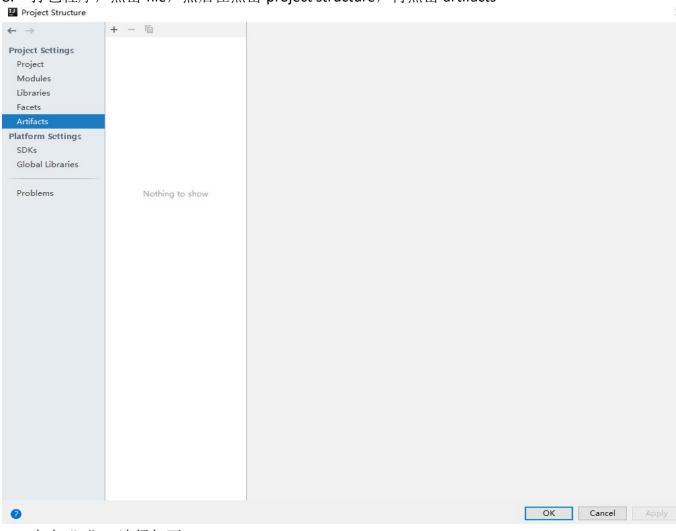
6.5 将 jars 中的包全部导入



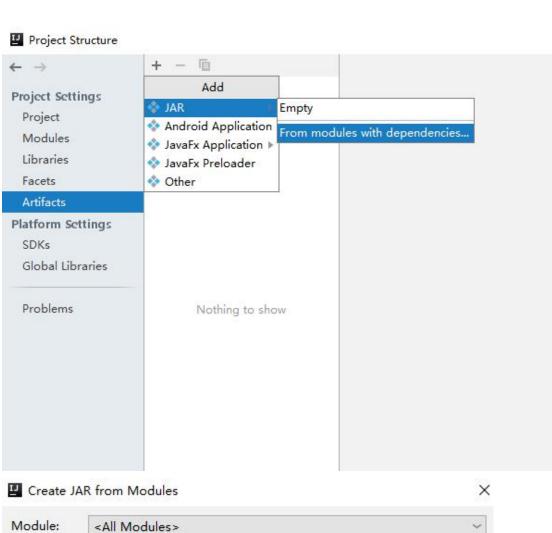
7. 点击 run,运行成功。

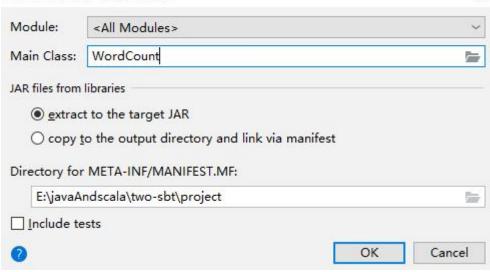
```
2019-01-14 16:53:42 INFO TaskSetManager:54 - Starting task 0.0 in stage 2.0 (TID 2, local
2019-01-14 16:53:42 INFO Executor:54 - Running task 0.0 in stage 2.0 (TID 2)
2019-01-14 16:53:42 INFO ShuffleBlockFetcherIterator:54 - Getting 1 non-empty blocks out
2019-01-14 16:53:42 INFO ShuffleBlockFetcherIterator:54 - Started O remote fetches in O m
(hello, 6)
(scala, 1)
(tom, 1)
(jerry, 1)
(tomcat, 1)
(kitty, 1)
(world, 1)
2019-01-14 16:53:42 INFO Executor:54 - Finished task 0.0 in stage 2.0 (TID 2). 1052 bytes
2019-01-14 16:53:42 INFO TaskSetManager:54 - Finished task 0.0 in stage 2.0 (TID 2) in 46
2019-01-14 16:53:42 INFO TaskSchedulerImpl:54 - Removed TaskSet 2.0, whose tasks have all
2019-01-14 16:53:42 INFO DAGScheduler:54 - ResultStage 2 (foreach at WordCount.scala:16)
2019-01-14 16:53:42 INFO DAGScheduler:54 - Job 0 finished: foreach at WordCount.scala:16,
```

8. 打包程序,点击 file,然后在点击 project structure,再点击 artifacts

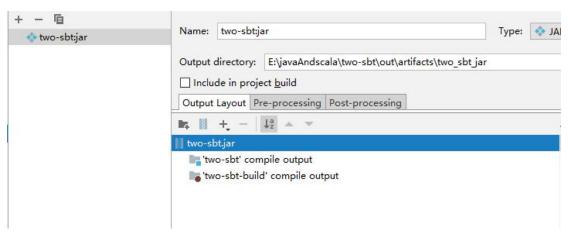


9. 点击"+",选择如下:

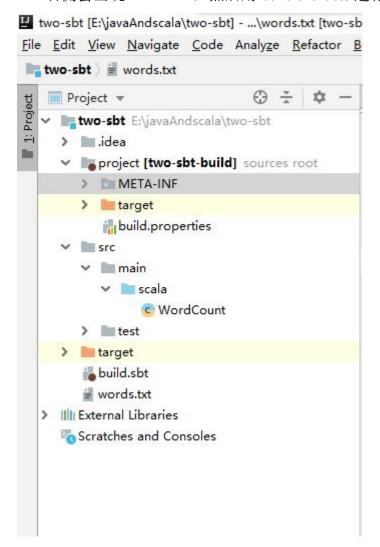




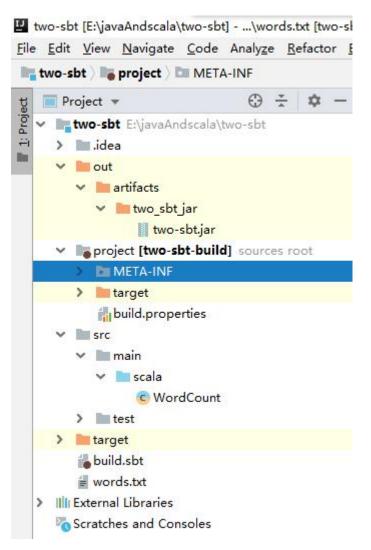
10. 删除多余的 jar 包,只需上下如下内容



11. 右侧会出现 META-INF,然后用 bulid artifacts 进行导出



12. 结果如下



- 13. 将 two-sbt.jar 和 words.txt 放到 centos7 的 root 目录下
- 14. 输入以下命令运行,并运行成功!

[root@HadoopMaster bin]# ./spark-submit --class "WordCount" /root/two-sbt.jar |

```
19/01/14 17:10:47 INFO MemoryStore: Block broadcast_3 stored as 19/01/14 17:10:47 INFO MemoryStore: Block broadcast_3_piece0 stored 19/01/14 17:10:47 INFO BlockManagerInfo: Added broadcast_3_piece 19/01/14 17:10:47 INFO SparkContext: Created broadcast 3 from blook 19/01/14 17:10:47 INFO DAGScheduler: Submitting 1 missing tasks 19/01/14 17:10:47 INFO TaskSchedulerImpl: Adding task set 2.0 wrold 19/01/14 17:10:47 INFO TaskSetManager: Starting task 0.0 in stage 19/01/14 17:10:47 INFO Executor: Running task 0.0 in stage 2.0 19/01/14 17:10:47 INFO ShuffleBlockFetcherIterator: Getting 1 nrold 19/01/14 17:10:47 INFO ShuffleBlockFetcherIterator: Started 0 rrold 19/01/14 17:10:47 INFO ShuffleBlockFetcherIterator: Started 0 rrold 19/01/14 17:10:47 INFO Executor: Finished task 0.0 in stage 2.0 19/01/14 17:10:47 INFO TaskSetManager: Finished task 0.0 in stage 2.0 19/01/14 17:10:47 INFO TaskSetManager: Finished task 0.0 in stage 19/01/14 17:10:47 INFO TaskSetManager: Finished task 0.0 in stage 19/01/14 17:10:47 INFO TaskSchedulerImpl: Removed TaskSet 2.0, 19/01/14 17:10:47 INFO DAGScheduler: ResultStage 2 (foreach at 19/01/14 17:10:47 INFO DAGScheduler: Job 0 finished: foreach at 19/01/14 17:10:47 INFO DAGScheduler: Job 0 finished: foreach at 19/01/14 17:10:47 INFO DAGScheduler: Stopped Spark web UI at http://
```