Assignment 4 Enhong Ma course: 3030

Homework: Explain what this does and how it does it # Again make sure that you have the correct file location

from operator import add

.from operator package, import an accumulator operator – add. This will be used to calculate the parallel result from cluster node. In our case, only one local node.

f = sc.textFile("/var/tmp/temp1/spark/bin/shakespeare.txt")

.use textFile method of spark content object – sc to open text file on disk wc = f.flatMap(lambda x: x.split(' ')).map(lambda x: (x, 1)).reduceByKey(add)

.first split the text file into separate word, using flatMap to create a list, one word on each line. Then map the text file and append number after each word through map function. Finally, use the accumulator operator – add to aggregate same word together. It generates two text files contains word counting .

wc.saveAsTextFile("wc_out.txt")

.create directory wc_out.txt and write output to files under this directory.