Quiz 6 - WordCount in Spark

1. What does the following line of code do?

words = lines.flatMap(lambda line: line.split(" "))

- Each line in the document is split up into words.
- Each line in the document is split into various Spark partitions.
- Each word in each line is counted.
- Each word is merged into lines to be counted later.
- 2. What does the following line of code imply about the state of partitions before the action is performed?

words = lines.flatMap(lambda line: line.split(" "))

- Each Spark partition corresponds to a line in the document.
- Each Spark partition corresponds to a word in the document.
- There is only one single partition containing the full document.
- 3. When the following command is executed, where is the file written and how can it be accessed?

counts.coalesce(1).saveAsTextFile('hdfs:/user/cloudera/wordcount/outputDir')

- HDFS and through the system directory with the "cd" terminal command.
- HDFS and through the "hadoop fs" command.
- The local file system and through the "hadoop fs" command.
- The local file system and through the directory with the "cd" terminal command.

4. What does the number one (1) allow us to do in the following line of code?

tuples = words.map(lambda word: (word,1))

- The number represents the number of partitions in charge of counting each line.
- The number represents the number of partitions in charge of keeping track of each word.
- None, completely arbitrary in order to apply an algorithm that requires a tuple.
- Treat each word with a weight of one during the counting process.