Cloud Computing

Spring 2019

Dr. Farshad Khunjush

Homework 3: Spark

Due date: July 20th, 23:55

The given Datasets are the bag of words.

Using apache spark, You Should write a program for the following purposes:

- 1. (35 points) Receives a word from the input, count, and print the number of words containing that word. For example, if the word is "test", the following words should be printed (in dataset 1):
 - "test, testament, latest, testimonial, protest"
- 2. (40 points) Counts the number of mutual words between dataset 1 and dataset 2. (The mutual words are the words that exist in both datasets.) (in data set 1,2)
- 3. (25 points) Counts the number of words with inverse letters. (Like abba) (in dataset1)

Reminders:

- Each HW has to be done individually (For assignments that are similar to each other, the grade is 0.)
- The programs should be developed using JAVA and apache spark.
- You should submit a report and explain the problem-solving method and show your results. (50% of your points belong to the report for each part)
- Your codes and the report should be submitted before the due date through email to TA.
- In-person delivery will be announced.