\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* COEN 242 Programming Assignment 4 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Group Members

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Problem Statement

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REAL TIME STREAM ANALYSIS using SPARK

1.Determine the moving average of “dOctets” field over tumbling time window of one minute. Along with the average list out the largest value corresponding to each one minute window. Consider “unixTime” in the data for window time operations.

2.List out all the “srcaddr” & “dstaddr” that appears

twice in a sliding window of 2 minutes.

Compile and Execute Instructions

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Below are the java files :

Problem 1 Solution 1:

MainClass.java - source code

JavaRow.java

ReceiverClass.java

Problem 1 Solution 2:

Main.java - source code

Server.java

Problem 2 Solution 1:

Problem2.java

Note:

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1. Execute command on terminal to get streaming data from jar file using command:

java -jar data-generator.jar --destIPaddress 127.0.0.1 --destPortNumber 9876

--transmissionTime 10 --transmissionRate 1000

2. For problem 1 solution 1, execute MainClass.java

3. For problem 1 solution 2, execute main.java and server.java simultaneously

Give the path to write and read csv file in your local machine.

4. For problem 2, execute main1.java server.java simultaneously