Q1) Calculate the simple moving average

I used a method called getSimpleMovingAverage which iterates through pairRDD called _smaPairRDD and output is stored in

OUTPUT_PATH/SMA/….

It's calculating sum of closing price / counter

Q2)  Find the stock out of the four stocks giving maximum profit:

I used a method called getStockGivingMaxProfit which is average closing price - average opening price

Q3) RSI of the four stocks in a 1-minute sliding window for the last 10 minutes

The RSI for every symbol is created as a Tuple2 object and added to the list. The variable Counter is used to identify the interval and is reset at every interval.

Q4) Calculate the trading volume of the four stocks every 10 minutes


I used the method getVolume which stores the output in:


OUTPUT_PATH/VOL/….


Execution instructions:

1)  java -jar first-spark-streaming-application-0.0.1-SNAPSHOT.jar <InputPath> <OutputPath> <TempFilesPath>

# Screenshots: