Assignment 5 - Spark Streaming

- 1. Write a standalone application in Spark to count the number of words in a received stream.
 - Hint 1: use the *netcat* server to send the text through a TCP connection. For example, nc -lk 9999 can be used to transfer any text that you type in the terminal through port 9999.
 - Hint 2: if you are using local as the master URL when creating StreamingContext, you have to give at least one more core as the number of input streams, because each input stream would create a receiver that occupies one core. If you use local, it only gives one core to the context, which is used by the socket stream's receiver, leaving no core available for processing the data, thus, you should use local[2].
- 2. Extend the code to generate word count over last 30 seconds of data, and repeat the computation every 10 seconds.
- 3. Maintain a continuously updated word count for all the words in the stream.