## Problem03\_Final

September 26, 2019

```
# Ulysses Carlos -- 09/25/2019
    # Problem 03
     # Using the PostHistory file, count the number of Posts that feature the words
     # Spark" and Scala". Output this to the screen. (20 points)
    import re
    # Stop SparkContext
    sc.stop()
    from pyspark import SparkConf, SparkContext
    conf = SparkConf().setMaster("local").setAppName("My App")
    sc = SparkContext(conf = conf)
    xml_file = sc.textFile("PostHistory.xml")
    file_count = xml_file.count()
    print ("Lines in XML file: " + str(file_count))
    #Define function:
    def apply_regex(regex1, line):
        test1 = re.search(regex1, line, re.IGNORECASE)
        if test1:
           return str(line)
        else:
           return str("<USER>")
    #End
    test_spark = xml_file.map(lambda line : apply_regex("spark", str(line)) )
```

Lines in XML file: 121525
Lines that contain the word "Spark": 1341
Lines that contain the word "Scala": 968
The number of posts that feature the words "Spark" or "Scala" is 2098.

[]: