## **Assignment 17.1**

## **Problem Statement:**

1. Write a program to read a text file and print the number of rows of data in the document.

2. Write a program to read a text file and print the number of words in the document.

3. We have a document where the word separator is -, instead of space. Write a spark code, to obtain the count of the total number of words present in the document.

```
val rdd hyphen = sc.textFile("/home/acadgild/hadoop/word-seperator.txt")
val rdd hyphen words = rdd hyphen.flatMap(line=> line.split("-"))
rdd hyphen words.collect
val word hyphen separator count = rdd hyphen words.count
println(word_hyphen_separator_count)
[acadgild@localhost hadoop]$ ls
company.java maxout
                                       pid
                                                                                             student.txt
                                                                                                                        word-count.txt
datanode namenode sample_temperature_dataset.c
[acadgild@localhost hadoop]$ cat word-seperator.txt
This-is-my-first-assignment.
It-will-count-the-number-of-lines-in-this-document.
                                                                                             television.txt word-seperator.txt
                                       sample_temperature_dataset.csv
The-total-number-of-lines-is-3
[acadgild@localhost hadoop]$ pwd
/home/acadgild/hadoop
[acadgild@localhost hadoop]$
 scala> val rdd_hyphen = sc.textFile("/home/acadgild/hadoop/word-seperator.txt")
rdd_hyphen: org.apache.spark.rdd.RDD[String] = /home/acadgild/hadoop/word-seperator.txt MapPartitionsRDD[11] at textFile at <console>:24
  cala> val rdd_hyphen_words = rdd_hyphen.flatMap(line=> line.split("-"))
dd_hyphen_words: org.apache.spark.rdd.RDD[String] = MapPartitionsRDD[12] at flatMap at <console>:26
 scala> rdd_hyphen_words.collect
res4: Array[String] = Array(This, is, my, first, assignment., It, will, count, the, number, of, lines, in, this, document., The, total, n
umber, of, lines, is, 3)
 cala> println(word_hyphen_separator_count)
 cala>
```