Program to run wordcount on scala shell
 Note- Create a textfile sparkdata.txt locally and give appropriate path while loading the data using sc.textFile

```
val data=sc.textFile("sparkdata.txt")
data.collect;
val splitdata = data.flatMap(line => line.split(" "));
splitdata.collect;
val mapdata = splitdata.map(word => (word,1));
mapdata.collect;
val reducedata = mapdata.reduceByKey(_+_);
reducedata.collect;
```

2. Using RDD and FlaMap count how many times each word appears in a file and write out a list of words whose count is strictly greater than 4 using Spark.

```
val textFile = sc.textFile("/home/bhoom/Desktop/wc.txt")
val counts = textFile.flatMap(line => line.split(" ")).map(word => (word, 1)).reduceByKey(_ + _)
import scala.collection.immutable.ListMap
val sorted=ListMap(counts.collect.sortWith(_._2 > _._2):_*)// sort in descending order based
on values
println(sorted)
for((k,v)<-sorted)
{
    if(v>4)
    {
        print(k+",")
        print(v)
        println()
    }
}
```

- **3.** Execute Hello World Program in SCALA IDE. Follow the steps given in https://www.dataneb.com/post/hello-world-with-scala-ide
- 4. Program to run wordcount on scala IDE

Note: Follow the Helloworld program steps to create scala object and type in the following program and execute package wordcount

import org.apache.spark.SparkConf import org.apache.spark.SparkContext

import org.apache.spark.rdd.RDD.rddToPairRDDFunctions

```
object WordCount {
def main(args: Array[String]) = {
//Start the Spark context
  val conf = new SparkConf().setAppName("WordCount")
.setMaster("local")
val sc = new SparkContext(conf)
//Read some example file to a test RDD
val test = sc.textFile("input.txt")
test.flatMap { line => //for each line
line.split(" ") //split the line in word by word.
}.map {
word => //for each word (word, 1)
a key/value tuple, with the word as key and 1 as value
}
.reduceByKey(_ + _) //Sum all of the value with same key
.saveAsTextFile("output.txt") //Save to a text file
//Stop the Spark context
sc.stop
}
}
```