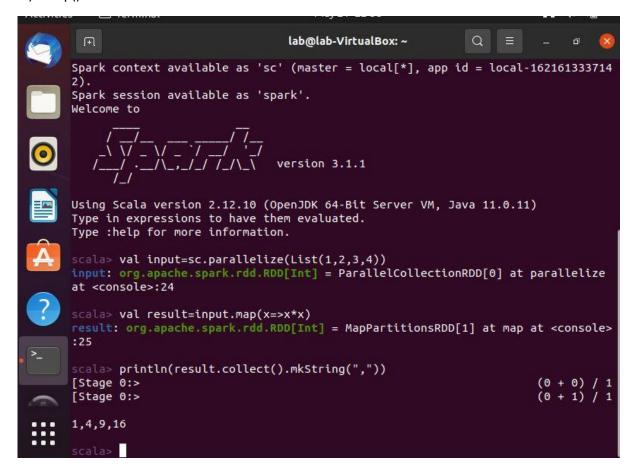
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## BDA Assignment-4

## 1) map()



## 2) flatmap()

```
scala> val lines=sc.parallelize(List("hello world","hi"))
lines: org.apache.spark.rdd.RDD[String] = ParallelCollectionRDD[36] at parallel
ize at <console>:24

scala> val words=lines.flatMap(line=>line.split(" "))
words: org.apache.spark.rdd.RDD[String] = MapPartitionsRDD[37] at flatMap at <c
onsole>:25

scala> words.first()
res11: String = hello
```

## 3) filter()

```
scala> val input=sc.parallelize(List(1,2,3,4))
input: org.apache.spark.rdd.RDD[Int] = ParallelCollectionRDD[8] at parallelize
at <console>:24
scala> val result=input.filter(x=>x!=1)
result: org.apache.spark.rdd.RDD[Int] = MapPartitionsRDD[9] at filter at <console>:25
scala> println(result.collect().mkString(","))
2,3,4
```

#### 4) union()

```
scala> val input4=sc.parallelize(List(1,2,3))
input4: org.apache.spark.rdd.RDD[Int] = ParallelCollectionRDD[14] at paralleliz
e at <console>:24

scala> val input5=sc.parallelize(List(3,4,5))
input5: org.apache.spark.rdd.RDD[Int] = ParallelCollectionRDD[15] at paralleliz
e at <console>:24

scala> val result=input4.union(input5)
result: org.apache.spark.rdd.RDD[Int] = UnionRDD[16] at union at <console>:27

scala> println(result.collect().mkString(","))
1,2,3,3,4,5
```

# 5) intersection()

```
scala> val input4=sc.parallelize(List(1,2,3))
input4: org.apache.spark.rdd.RDD[Int] = ParallelCollectionRDD[17] at parallel
e at <console>:24

scala> val input5=sc.parallelize(List(3,4,5))
input5: org.apache.spark.rdd.RDD[Int] = ParallelCollectionRDD[18] at parallel
e at <console>:24

scala> val result=input4.intersection(input5)
result: org.apache.spark.rdd.RDD[Int] = MapPartitionsRDD[24] at intersection
<console>:27

scala> println(result.collect().mkString(","))
3
```

# 6) distinct()

## 7) subtract()

```
scala> val input4=sc.parallelize(List(1,2,3))
input4: org.apache.spark.rdd.RDD[Int] = ParallelCollectionRDD[25] at paralleliz
e at <console>:24

scala> val input5=sc.parallelize(List(3,4,5))
input5: org.apache.spark.rdd.RDD[Int] = ParallelCollectionRDD[26] at paralleliz
e at <console>:24

scala> val result=input4.subtract(input5)
result: org.apache.spark.rdd.RDD[Int] = MapPartitionsRDD[30] at subtract at <console>:27

scala> println(result.collect().mkString(","))
1,2
```

## 8) cartisian()