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Three ways to generate RDD:
1. Using parallelize collection
val PCRDD =
spark.sparkContext.parallelize(Array("Monday","Tuesday","Thursday","Friday","Saturday","Sunday"),
PCRDD.collect.foreach(println)
2. From external storage like hdfs, hive etc.
val Sparkfile = spark.read.textFile("/user/hadoop/wordcount/input/file1.txt")
Sparkfile.collect().foreach(println)
3. From existing RDDs
val words = spark.sparkContext.parallelize(Seq("Spark","is","very","powerful"))
val wordpair = words.map(w \Rightarrow (w.charAt(0), w))
wordpair.collect().foreach(println)
(S,Spark)
(i,is)
(v,very)
(p,powerful)
Examples:
matches.csv file containes IPL cricket data and is stored on hdfs at /user/hadoop path.
val ckfile = sc.textFile("/user/hadoop/matches.csv")
//Loads data(This is the path of hdfs) in ckfile RDD. To access local file use following code:
// val ckfile = sc.textFile("file:///home/pinkal/Desktop/matches.csv")
ckfile.collect.foreach(println)
//prints line by line
ckfile.first()
// prints schema
val states =ckfile.map(_.split(",")(2))
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// finds all cities where match was conducted
states.collect.foreach(println)

// prints all cities where match was conducted

val scount = states.map(scount => (scount,1))
val statecount = scount.reduceByKey((x,y) => x+y).map(tup => (tup._2,tup._1))sortByKey(false)
statecount.take(10).foreach(println)
```