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Example –

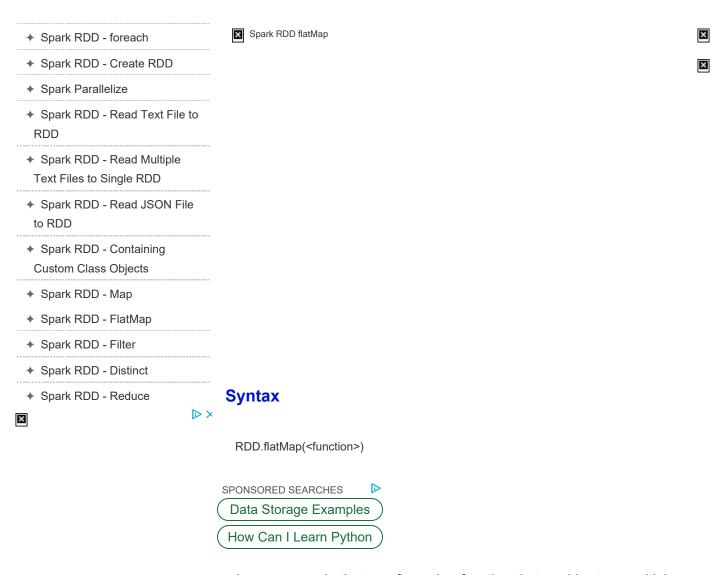
String to Words

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# Spark RDD flatMap()

In this Spark Tutorial, we shall learn to **flatMap** one RDD to another. Flat-Mapping is transforming each RDD element using a function that could return multiple elements to new RDD. Simple example would be applying a flatMap to Strings and using split function to return words to new RDD.



where<function> is the transformation function that could return multiple elements to new RDD for each of the element of source RDD.

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Spark Dataseet

Spark RDD flatMap Java Example - String to Words

RDDflatMapExample.java

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```
import java.util.Arrays;
import org.apache.spark.SparkConf;
import org.apache.spark.api.java.JavaRDD;
import org.apache.spark.api.java.JavaSparkContext;
public class RDDflatMapExample {
  public static void main(String[] args) {
     // configure spark
     SparkConf sparkConf = new SparkConf().setAppName("Read Text to RDD")
                         .setMaster("local[2]").set("spark.executor.memory","2g");
     // start a spark context
     JavaSparkContext sc = new JavaSparkContext(sparkConf);
     // provide path to input text file
     String path = "data/rdd/input/sample.txt";
     // read text file to RDD
     JavaRDD<String> lines = sc.textFile(path);
     // flatMap each line to words in the line
     JavaRDD<String> words = lines.flatMap(s -> Arrays.asList(s.split(" ")).iterator());
     // collect RDD for printing
     for(String word:words.collect()){
       System.out.println(word);
sample.txt
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Java Example Output
17/11/29 12:33:59 INFO DAGScheduler: ResultStage 0 (collect at
RDDflatMapExample.java:26) finished in 0.513 s
17/11/29 12:33:59 INFO DAGScheduler: Job 0 finished: collect at
RDDflatMapExample.java:26, took 0.793858 s
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Apache
```

Spark SPONSORED SEARCHES Learn spark learning to work with spark machine **RDD** 17/11/29 12:33:59 INFO SparkContext: Invoking stop() from shutdown hook how to use apache spark machine learning examples

spark-rdd-flatmap-example.py

python programming examples

### **Spark RDD flatMap Python Example – String to Words**

```
import sys
from pyspark import SparkContext, SparkConf
if name == " main ":
 # create Spark context with Spark configuration
 conf = SparkConf().setAppName("Read Text to RDD - Python")
 sc = SparkContext(conf=conf)
 # read input text file to RDD
 lines = sc.textFile("/home/tutorialkart/workspace/spark/sample.txt")
 # flatMap each line to words
 words = lines.flatMap(lambda line: line.split(" "))
 # collect the RDD to a list
 llist = words.collect()
 # print the list
 for line in llist:
  print line
```

#### Run the above python program using spark-submit

~\$ spark-submit spark-rdd-flatmap-example.py

Python Program Output

17/11/29 15:15:30 INFO DAGScheduler: ResultStage 0 (collect at /home/tutorialkart/workspace/spark/spark-rdd-flatmap-example.py:18) finished in 1.127 s 17/11/29 15:15:30 INFO DAGScheduler: Job 0 finished: collect at /home/tutorialkart/workspace/spark/spark-rdd-flatmap-example.py:18, took 1.299076 s

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17/11/29 15:15:30 INFO SparkContext: Invoking stop() from shutdown hook

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