cogroup() Transformation

```
In [1]: from pyspark.sql import SparkSession
        spark = SparkSession \
                .builder \
                .master("local[2]") \
                .appName("cogroup Transformation") \
                .enableHiveSupport() \
                .get0rCreate()
        #key-value pairs from dataset 1
        kvPair = [(1, 2.5), (2, 4.0), (3, 5.5)]
        kvPairRdd = spark.sparkContext.parallelize(kvPair)
        print(kvPairRdd.collect())
        #key-value pairs from dataset 2
        otherKvPair = [(1, 3.5), (1, 4.0), (2, 2.5), (2, 3.5), (4, 10.0), (3, 4.5)]
        otherKvPairRdd = spark.sparkContext.parallelize(otherKvPair)
        print(otherKvPairRdd.collect())
        22/10/14 01:01:26 WARN Utils: Your hostname, Vaishalis-MacBook-Pro.local resolves to a loopback address: 127.0.
        0.1; using 192.168.0.105 instead (on interface en0)
        22/10/14 01:01:26 WARN Utils: Set SPARK_LOCAL_IP if you need to bind to another address
        Setting default log level to "WARN".
        To adjust logging level use sc.setLogLevel(newLevel). For SparkR, use setLogLevel(newLevel).
        22/10/14 01:01:27 WARN NativeCodeLoader: Unable to load native-hadoop library for your platform... using builti
        n-java classes where applicable
        22/10/14 01:01:28 WARN Utils: Service 'SparkUI' could not bind on port 4040. Attempting port 4041.
        [Stage 0:>
                                                                            (0 + 2) / 2
        [(1, 2.5), (2, 4.0), (3, 5.5)]
        [(1, 3.5), (1, 4.0), (2, 2.5), (2, 3.5), (4, 10.0), (3, 4.5)]
In [2]: #kvPairRdd has (K,V)
        #otherKvPairRdd has (K,W)
        #cogroup returns a dataset of (K, (Iterable<V>, Iterable<W>)) tuples.
        #That means for kvPairRDD, there are a list of values for each key in Iterable<V>
        #That means for otherKvPairRDD, there are a list of values for each key in Iterable<W>
        cogroupKvRdd = kvPairRdd.cogroup(otherKvPairRdd)
        print(cogroupKvRdd.collect())
        [Stage 2:=======
                                                                            (2 + 2) / 4
        [(4, (<pyspark.resultiterable.ResultIterable object at 0x106fce830>, <pyspark.resultiterable.ResultIterable obj
        ect at 0x112e81750>)), (1, (<pyspark.resultiterable.ResultIterable object at 0x112e81780>, <pyspark.resultitera
        ble.ResultIterable object at 0x112e817e0>)), (2, (<pyspark.resultiterable.ResultIterable object at 0x112e81810
        >, <pyspark.resultiterable.ResultIterable object at 0x112e81870>)), (3, (<pyspark.resultiterable.ResultIterable
        object at 0x112e818d0>, <pyspark.resultiterable.ResultIterable object at 0x112e81930>))]
In [3]: #Let us look at the actual values
        print([(x,tuple(map(list,y)))for x,y in sorted(list(cogroupKvRdd.collect()))])
        [(1, ([2.5], [3.5, 4.0])), (2, ([4.0], [2.5, 3.5])), (3, ([5.5], [4.5])), (4, ([], [10.0]))]
```