mappedValues

```scala
//            @Author  Maniram Yadav

val inputrdd = sc.parallelize(Seq(("physics", 45),("maths", 50), ("maths", 60), ("er
```

Took: 796 milliseconds, at 2018-1-16 16:34

```scala
val mapped = inputrdd.mapValues(mark => (mark, 1));
mapped foreach println
```

Took: 975 milliseconds, at 2018-1-16 16:34

```scala
val reduced = mapped.reduceByKey((x, y) => (x._1 + y._1, x._2 + y._2))

reduced foreach println
```

Took: 1 second 127 milliseconds, at 2018-1-16 16:34

```scala
val average = reduced.map { x =>
                          val temp = x._2
                          val total = temp._1
                          val count = temp._2
                          (x._1, total / count)
                          }
average foreach println
```

Took: 1 second 34 milliseconds, at 2018-1-16 16:35

```scala
var initial=("i",0)
val sumtotal = inputrdd.fold(initial){ (key, value) =>
     val sum = key._2 + value._2
     ("total", sum)
   }
print(sumtotal)
```

Took: 858 milliseconds, at 2018-1-16 16:35

Build: | **buildTime**-*Thu Dec 21 13:04:00 UTC 2017* | **formattedShaVersion**-*0.7.0-743db69157361e7f476c80b9507060482add9383* | **sbtVersion**-*0.13.8* | **scalaVersion**-*2.11.7* | **sparkNotebookVersion**-*0.7.0* | **hadoopVersion**-*2.7.2* | **jets3tVersion**-*0.7.1* | **jlineDef**-*(jline,2.12)* | **sparkVersion**-*1.6.3* | **withHive**-*false* | **withParquet**-*false* |.

Build: | **buildTime**-*Thu Dec 21 13:04:00 UTC 2017* | **formattedShaVersion**-*0.7.0-743db69157361e7f476c80b9507060482add9383* | **sbtVersion**-*0.13.8* | **scalaVersion**-*2.11.7* | **sparkNotebookVersion**-*0.7.0* | **hadoopVersion**-*2.7.2* | **jets3tVersion**-*0.7.1* | **jlineDef**-*(jline,2.12)* | **sparkVersion**-*1.6.3* | **withHive**-*false* | **withParquet**-*false* |.