1. It is RDD transformation used to apply function(lambda) on every element of RDD and returns new RDD.
2. DataFrame doesn’t have map() transformation to use with DataFrame you need to generate RDD first.

**Example-1**

from pyspark.sql import \*  
from pyspark.sql.functions import \*  
  
*# Create a Spark session*spark = SparkSession.builder.appName("rdd").getOrCreate()  
  
myData = [('Harsha','vardhan'),('Mokshit','Chowdary')]  
  
rdd1 = spark.sparkContext.parallelize(myData)  
  
rdd2 = rdd1.map(lambda x:x + (x[0] +' '+ x[1],))  
  
print(rdd2.collect())

**Output:**

[('Harsha', 'vardhan', 'Harsha vardhan'), ('Mokshit', 'Chowdary', 'Mokshit Chowdary')]

**Example-2**

from pyspark.sql import \*  
from pyspark.sql.functions import \*  
  
*# Create a Spark session*spark = SparkSession.builder.appName("rdd").getOrCreate()  
  
myData = [('Harsha','vardhan'),('Mokshit','Chowdary')]  
  
df = spark.createDataFrame(myData,schema=['first\_name','last\_name'])  
  
rdd1 = df.rdd.map(lambda x:x + (x[0]+' '+x[1],))  
  
df1 = rdd1.toDF(['first\_name','last\_name','full\_name'])  
  
df1.show()

**Output:**

+----------+---------+----------------+

|first\_name|last\_name| full\_name|

+----------+---------+----------------+

| Harsha| vardhan| Harsha vardhan|

| Mokshit| Chowdary|Mokshit Chowdary|

+----------+---------+----------------+

**Example-3**

from pyspark.sql import \*  
from pyspark.sql.functions import \*  
  
*# Create a Spark session*spark = SparkSession.builder.appName("rdd").getOrCreate()  
  
myData = [('Harsha','vardhan'),('Mokshit','Chowdary')]  
  
df = spark.createDataFrame(myData,schema=['first\_name','last\_name'])  
  
def fullName(x):  
 return x + (x[0]+' '+x[1],)  
  
rdd1 = df.rdd.map(lambda x: fullName(x))  
  
df1 = rdd1.toDF(['f\_name','l\_name','full\_name'])  
  
df1.show()

**Output:**

+-------+--------+----------------+

| f\_name| l\_name| full\_name|

+-------+--------+----------------+

| Harsha| vardhan| Harsha vardhan|

|Mokshit|Chowdary|Mokshit Chowdary|

+-------+--------+----------------+