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Topic	Page No
	to the court
(V) lambda function:	
>>> res = dist.map (lambda 2e;	x+2)
>>> ras. collect()	A Company of the comp
	10. 3
to create RDD from a file	
Societe file at target dir au	nd name it
as "data"	
Grun mentioned command in by	thon.
>>> dist1 = sc. textfile ("data, +xet"	
>>> dist1.	· 2
(b) Spark Scala Shell	
- invoking spark shell	
> cd \ '	
> cd sparek \ lin	1
C:\ Spark\ bin > spark-shell	
	V
- verifying the shell	
-> verifying the shell >sc	
-> vilate RDP wing parallelize methe	≈d
Scala > val data = Array (1,2,3,4,	
seala> val dist = se.parallelize (d	ata
Seala> dist	
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-> Applying functions on	RDD.
(i) count (e)	
Scala> dist, count()	
(ii) collect()	The state of the s
Scala> dist. collect()	
(iii) pirat ()	1 2 3 3 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1
Scala > dist. first	Programme and the second of the
Scala> dist. first() Scala> dist. tare(3)	· .
(iv) lambda bunction	$(2 \rightarrow 2 \rightarrow 2)$
scala> val diat1 = d	ist, map (2 - 2+2)
scala> dists, collect()	
	set kilo.
-> creating RPO from to	aset our con a
Scala > val file = Se.	textfile ("data.txt")
Scalar Vote file, coll	ctO
V	
2 on Databricks	
(a) Python Thecking sparklon	text
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Topic	Date
-> vieating RDD's	,1 , , , , , , , ,
1 data = [1,2,3,4,5]	-A - 3
2 dist = sc. parallelize (data)	
3 dist	
	12
Applying functions on Roo's	
1 d'est collect C	
2 dist. count	· II
3 dist. first() 4 dist, take(3)	<u> </u>
Take(b)	
- Creating ROD using text File	7.784 - 4 5
1 diat1 = sc. textfile (" alofs: / FileSto	
1500068760@stu.upes.ac.in/d	
2 dists	
	01 01 2 A A
-> checking spareklantert 1 Se	
1 Se	
-> reating RDD's	5 2 No. 2 1
1 val dota = Avvay (1,2,3,4,5) 2 val dist = Se, parallelize (data)) ~ .
3 dist	
-> Applying functions on RDD's 2 dist collect(
1 det collecte	
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2 dist. court	
3 dist, take(3)	
-> lambda function	
1 val dist1 = dist. map (x > x+2	.)
2 dists. collecte	
- creating RDD's from text bile	
I val file = sc. textfile ("dbfs:/fi	10 Store 1
Shared uploads/500068760	
1 data . +>e+")	grand. Upes, ue. 11
2 file collect()	
2 processing to	
·	
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```
Date - 18/01/2021
Output:
CITSpark lin> pysparek
spark version 3.0.1
>>> Sc
<spankContext mounter = locae[*] appName = lysparksheu>
>>> data = [1,2,3,4,5]
>>> dist = sc parallelize (data).
>>> dist
Parallel Collection 200603 at read & potromfile at Python ROP.
>>> dist.count()
5
>>> dist. collect 1)
[1,2,3,4,5]
>>> dist. first()
>>> dist. take (3)
 [1,2,3]
>>> result = dist.map (lambda x:x+2)
>>> result. collect U
 [3,4,5,6,7]
>>> dist 1 = Sc. textfile("data. +xet")
>>> dist. collect b
 [2, 1, 5, 12, 1]
```

Output:

Date-18/01/2021

C:\Spark\ win> spark-shell Spark. Version 3.0.1.

Scala > Sc

sparkConteset@ 2422

Scala > val data = Array (1,2,3,4,5) data: Array [Int] = Array (1,2,3,4,5)

Scala > val dist = sc. parallelize (data) dist: org. apache. sparck. rdd. RODLIN+] = Parallelollection RDD[0] at parallelize at < longue>:26.

Scala > dist. count()

long = 5

Scala > dist. collect()

Array [Int] = Array (1,2,3,4,5)

Scala > dist. tare (3)

Array [Int] = Array (1,2,3)

Val dist1 = dist. map (x > x+2) dist1: org. apache. sparck. redd. RDD [Int] = MapParchitions RDD[1] at map Scala > dists. collect () Array [Int] = Array (3, 4, 5, 6)

Scala > val file = Sc. textfile ("dota. + set") file: org. apache. spark. rdd. RDD[string] = data. + set MapPartitionRDD[3]

Scala> file collect () Averay [string] = Array (1,2,3,4,5)

Output: On Databricks: Python

SC

Out[1]:

Sparex Context

sparek UI

Version V3.0.1

Marter local [8]

AppName Databricks Shell

 \rightarrow data = [1,2,3,4,5]dist = sc. parallelize (data) dist

Out[2]: Parallel Collection RDD[0] at readRDD Drom InputSerien at PythonROD. scala: 413

-> dist. count U dist. collect() dist. first U dist. take(3)

spark John Out[3]: 5

Out[4]: [1,2,3,4,5]

Out[5]: 1

OU+[6]: [1,2,3]

OWHOUT

1 dist1 = Sc. textfile ("dbfs: / Filestore/shared_uploads) don diats.

OUT(5) debs / Filestone 1 shared_uploads 1 5000 68760 @ Hu, upes in 1 data. +out" MapPartitions ROD(5) at + set file at Native Method Accessore Implejoua: 0.

Spark-seala

sc. parallelize (data) → val data = val dist =

data: Array [tnt] = Array (1,2,3,4,5)

dist: org. apache. spark. redd. RDD [Int] = Parallel Collection

RDD [11] at parallelize at command -1884313242:2.

 \rightarrow vae dists = dist. map $(x \Rightarrow x+2)$ dista. collect U

dists: org. apache. spark, rdd. ROD [Int] - Mapfarti tions RAME of map at command -18941324539:1

MUS1: Array (Int) = Array (3,4,5,6,7)

> vae file = sc. textfile ("dbfs: / Filestore / shared_uplant 1500068760@stu.upes.ac.in/data.+xx+") file.collect()

file: org. apache. Sparck . read. ROD[string] = dlys: / Filestou! sharied_uploids/ 5000 65 260 @ Hu. Upes. ac. in / data 120 Mapparlitions RDD [14] at + setfile at commans. resz: Avray [String] = Array (1,2,3,4,5,6)

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