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Topic	Date 25/01/2021
	Page No Page No.
	Eleperiment-3
0	P DDIA Davida and A davida and
3	RDD's Basics and Lambda Expressions Experiment-3(a)
	Experient-3(a)
1	imbort About Consider
3	import spark Context 1 from pyspark. sgl import Spark Session
	- gen pyspack. Age import spacksession
-	1 Clark - Shauksaning huid 1
,	1 Spark = Spark Session, builder
	master ("local")
	appliane ("Experiment 3")
	consig ('spack. ui, port', '4000'))
	getorcuate O
<u> </u>	1000 de Man management land
	Load the movies tet
	load in Filestore in shareduploads.
ス	CYPALL O ROD INCO MODILION LINE 120
=======================================	create a RDD from monies. toct file using
	1. monies = sc. textfile ("diffs:/filestore/shared_
	uploads/500068+60@2+4.upes.ac.in/monies.+nd"
t,	Vila Comment
	Display records.
	1 monies. take (3)
	Sharing the page 1000 days
7	Split the RDD based on ':: 'as allimeter 1 monies split = monies map (lambda line: line split ("::"))
* 7	- 11 viues split = minus map (lamba line: line split (":")
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PO	PU ^c Date
	Page No. 9
611	Select only movie fields containing movie names. - (second index) Movies_names = movies_split. map (lambda name; name[i) movies_names. take(2)
\rightarrow	Find the movies released in 1993 using filter () 1 movies release = movie names. filter () (bambda name: "1993" in name)
8	2. monies rulease. take (2) Count the number of monies ruleased in 1933.
	Count the number of monies released in 1933. 1 monies release count() Test sparksetsion variable Spark.
	Demonstrate lambda function-length movies names length = movies names, map (lambda
	nonies names length take (5)
	Experiment-3(b) tarded without use of lambda expressions use of functions are as follows:
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Topic	S	Date
	def square (num): result = num ** 2 return result	Page No.
->	def square Crum:	
->	det square (num): return num ** 2 Chad style	
2	Introducing lambda expressions, lambda hum: num & 0 2	
\rightarrow	Square (2)	
31	Example 1: even = Rambda $n : n y : 2 = = 0$ even (10) even (11)	
4	Erample 2: first char = lambda s: s [0] first char ("Lakshay sharena")	
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Topic	POPU				
S Example 3 Treverse str = lambda s: s[::-17 reverse str ("Laksnay Sharma") 6 Example 4 mult = lambda q, b: a*b mult (2,3)					
6 Example 4 mult = lambda q, b: a*b mult (23, 3))	Topic	Page No. 11			
6 Example 4 mult = lambda q, b : a*b mult (3,3))					
6 Example 4 mult = lambda q, b : a*b mult (3,3))	5 Example 3				
6 Example 4 mult = lambda q, b : a*b mult (3,3))	= HOLLOWAR Atom = Do Alloward String				
6 Example 4 mult = lambda q, b : a*b mult (3,3))	several succession of successi				
6 Example 4 mult = lambda q, b : a*b mult (3,3))	steverse stre ("Lakshay Sharma")				
mult = lambda q, b : a*b mult (2,3)					
mult = lambda q, b : a*b mult (2,3)	6 Example 4				
Mult (3,3)	-> mult = lambda q b : a t				
	mult (2,3)				
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Output:

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> movies. take (2)
OUT[1]: ["1:: Toy story (1995): Animation | children | lomedy"
"2": Jumanji (1995): Adventure | children "]

> monies_split = monies.map(lambda line: line.split ("::")
monies_split.take(2)
Out[2]: [['2', 'Toy story (1955)'," Animortion | children | comedy"],
['2', 'Jumanji (1995)', "Advanture | children"]]

>monies_names = monies_split.map(landda name:name[])
monies_names.take(2)
Out[3]: ['Toy story (1995)', 'Jumanji (1995)']

> mouil-sellase = monies names, filter (landeda name: "1393" in name)

monic. rulease. take (5)
Out[4]: [18040 of St. vincent, The (1993)',
1 Love & Human Remains (1993)',
1 My brazy life (Mi Vida Loca) (1993),
1 Byond Bedlam (1993)',
1 There (olors: Blue (1993)')

> monie rulease. count 0 Out[5]: 165 >spark.

Sparksession - hine

Spark Context

spark VI Versian

Vz. 0.1

Master

local[8]

Applame

Databricks shell

> movies names congth = movies_names.map(lambda a: len(10))

monies_rames_length.take (10) Out[7]: [16, 14, 23, 24, 34, 11, 14, 19, 19, 16]

Output.

> square (2) Oct [1] 4

> even = lambda n:n1.2 ==0 even (10)

OUH[2]: True

even (11)

OUT 137: False.

> first_char = lambda s:s[0] first_char ("Lakshay Sharma") Out[4]: 'L'

> reverse_ster = lambda s; s[::-1]
reverse_ster ("Lakerry Sharma")
Out[5]: 'omrans yahskal

> mult = lambda a, b : a * b mult(2,3) Out(6): 6