

BDA-LAB-05

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	man municipal and surprised of 15 and of the
*	Aim: Implement Mapreduce in Hadoop and
	perform file handling in HDPS for
	any domein agriculture [healthcare etc.
×	Objective:
	1 TO IREM & implement mep reduce program
	· 2 TO Herm use of Mep reduce procuring
of e deta	in unous Big deta.
	The wide faut to 1920 mile.
*	Problem gratement:
	write a java program to perform nopreduce
	processing for input files related to weather
	Monitoring & siles deta.
	THE THEY WERE THEY WAS TON PERCHANCE LAND
*	Theory:
	worsig of map reduce with builde example.
	1. Re word Recidi, 2 Map, 3 combine, 4 Pontus,
	5 strifte 2 son l'éduce 7. Output formet.
	O TOP tracker: acts the a mester
	(2) Tour Backer: act like starus
The Unit	and the time years on the contract of the
•	A job is divided into multiple tones which are
	then sur into meltiple deta nodes in a sutter.
	It is the responsibility of job traches to wider bu activity only scheduling taken to
	ann.
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	· In case of failure, the prot triche con
	reschedule it a difficit took toucher.
	The Manual of Ma
	2 Adventges?
	+ ruply a cell
	1. tugny scelable
- Ni	2. very self effective growtion for puriners
	3. tugney flexible
	4. Trackes very cers time to process very longe deta
	5. provides fauet tolerance
	The state of the s
	6. Beseel on simple programing model
4	Input! Text/csv file with data
- A	notes and a profit of the
×	output: year wise mex temperature for
	The state of the s
	DIOLAMON 2 1 No day M
*	Pletform: Windows
	Thus sentenced man medula
*	conclusion; Thus performed map reduce
	FAQ: 19 MAN A SULV MOS : 19 M SET YOU OF
	-3
	Tem Toucher act we stand
91)	How are the keys and values, extracted from input
37	files in the mapper?
-	The mapheduce framework operates on akey, value?
	pairs i.e framework views the output to the
177 4	job as a set of kney, value? pairs and
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	produces a set of exey, value 7 pairs as the
	output of the job, conceivably of different type
(02)	Explain the command word to run a Map Reduce
	program from command line with example
	command
-	e command:
	hadoop jar path-of-jar-file name- of-drives
	input-file-path-hafs output-folder-name
	eg:
	hadoop jar D: Mr.jar Driver I bodal input. +xt.
	Me-out
(03)	Discuss the importance of Job Mans in the map Reduce
	program
→	The job uens, allows the uses to configure the
	job, submit it control into execution and quely
	the state
-	THE STATE

```
Max Reducer
import java.io.IOException;
import java.util.lterator;
import org.apache.hadoop.io.IntWritable;
import org.apache.hadoop.io.Text;
import org.apache.hadoop.mapred.MapReduceBase;
import org.apache.hadoop.mapred.OutputCollector;
import org.apache.hadoop.mapred.Reducer;
import org.apache.hadoop.mapred.Reporter;
public class MaxReducer extends MapReduceBase implements
Reducer<Text,IntWritable,Text,IntWritable>{
               public void reduce(Text key, Iterator<IntWritable> value1,
                       OutputCollector<Text, IntWritable> values, Reporter r)
                       throws IOException {
                       int maxvalue=Integer.MIN VALUE;
                       while(value1.hasNext()){
                              maxvalue=Math.max(maxvalue, value1.next().get());
                      }
                      values.collect(key, new IntWritable(maxvalue));
       }
}
```