Vanu: Ravi Kumarı USN: 18M17CS150 Sign: (Ro)

Map Reduce > Find Max. of N numbers.

import Java. io. LO Exception; import Java-util. String Tokenizer; impost org. apache. hadoop.io. IntWritable, import org. apache. hadoop.io. longwritable; insport org: apache. hadoup. io. Text; import org. apache. nadoop. mapreduce. Mapper; import osg. apache. hadoop. mapreduce. Reducer; import org. apache. hadoop. conf. Configuration; org. apache. hadoop. mapredue. Job;
org. apache. hadoop. lib. input. Text Input Format;
org. apache. hadoop. lib. output. Text Output Format; import impost import org. apache. hadoop. lib. input. File Input Formal; impost org. apache. hadoop. mapseduce. lib. output. file Outputformat; i mpart org. apache .hadoop.fs. Path; import

public dass Max Num &

public static down MyMappur extends

Mapper Clongwritable, Text, Text, Intwritable > {

protected void map (longwritable key, Text value, Confest

Confert) throws IOException, Interrupted Exception
{

Name: Ravi Kumalu USN: 118M17(SISO Sign: (Red):

String[] numbers = value, to String (). split ("");

dor (String num: numbers)

& content. write (new Text (" Max"), new Intwriteable

(Integer. parseInt (num));

3

33

public static clars try Reducer extends Reducer < Text, IntWritable, Text, IntWritable > §

public void reduce (Text per, Iterable ZIntwritable)
values, Context context) throws Exception

Integer maxnum =1;

dor (Intwritable val: values)

if (valget() > maxnum)

{ waxnum = val. get();

2

context write (ky, new Intwritable (navnum));

3

Mame: Ravi Komate USN: IBMITCSISO Sign: (Ras)

```
Static void main (String[] args) throws 20 Exception,
public
                Interrupted Exception, Classivot Found Exception &
         if (args. length 1=2)
            System . err . println (" Please Enter the input & output params");
             System. exit (-1);
           Job job=new Job();
             Job. set Jan By Class ("Max Non");
             Job. Let Job Name (" Max Number");
             File Input Format. add Input Path (Job, new Path (args [0]));
              File Output Format. set Output Path (Job, new Path (args[i])).
              Job, set Mapper Class (My Mapper class);
              Job. set Reducer Class (My Reducer. class);
              Job. set Output Key Class ( Text. dars);
               Job : set Output Value ( Int Wn table class);
               System-exit (Job. wortforlompletion (true) 90:1);
          3
```

6