

Matoshri College Of Engineering & Research Centre, Eklahare, Nashik.

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Aim: Desig	n distribu	red ouppl	icatio	nusiny MapRed
uce which	process a la	g file of	0 915	item-list at
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	tem use s			
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mode on	hodoop pla	otform		
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	up Reduce co	ncesti	D Has	doop
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Hadoop.			<u> </u>	17(
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heory:

og file Contain list of actions that have been ownmored whenever someone access to your website
or web application. These log files reside in web
servers, each individual request is listed on a
separate line a log file, called a log entry, these
og files fits very well with the Mapkeduce programore model making, it a great example to understand the Hadoop Mapl Reduce Programming style.
Dur implementation Consists of three main parts:
1. Mapper

· Reducer

Driver.

Procedure:

stepl, Write a Mapper

A Mupper overrides the -map Function from the lass org. apache. hadoop. mapreduce. Mapper which provides key, value pairs as the input. A Mapper mplementation may output key, value pairs sing the provided context.

The put value of the log file map task will be a ine of text from. The input data file and the key would be the line number (line-number, line-of-text), Map task outputs & Word, one for each word in the line of text



```
Psuedo-code
void Map (key, value) {
 for each log entry rin value;
output. collect (x,1);
Step-2 Hrite o Reducer
A Reducer Collects the intermediate Lkey, value>
pulpul from multiple map tasks and assemble a
single result, Here, the log tile program will sum
up the ocurrences of each word to pairs as
Llogentry, occurrences>
Pseudo Code:
void Reduce (Key, 21ist of value >) {
for each x in Llist of value >:
Sum + = +;
final-output. Collect (key, 6um);
step-3 Write priver.
The priver program configure and run the
Map Reduce job. We use the main program to
perform basic configurations such as:
job Name: name of this job
Executable (Jan) class: the main executable class.
for here, Mainfest
Mapperclass class which overrides the 'map'
Function . For here, Map
Reducer: class which override the "orduce" Function
```



hara Dadus
or here Reduco.
utput key: type of output key. For here, text.
sufput value: type of output value . For here, Inthatiteles
rile Input path
rile output path.
Conclusion:
MapReduce is a programming framework that allows
us to perform distributed and parallel processing
on large duta sets in a distributed environment.
MapReduce Consists of two distinct tasks - Map &
Reduce. As the name MapReduce Suggests, reduces
phase takes place after mapper phase has been
completed.