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## New Horizon Institute of Technology & Management Page No.:

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## EXPERIMENT NO:04

Ain: Write a program to implement a word count program using Mapriduce

system Software Requirements: Java Compiler

Theory:

\* A Mac Reduce is a data processing tool which is used to process
the data parallely in a distributed form.

The mapreduce is a paradigm which has two phases, the
mapper phase, and the reducer phase. In the mapper, the input
is given in the form of key-value pair. The output of the Mapper
is flat to the reducer as input. The reducer runs only after the
Mapper is over. The reducer too takes input in key-value format,
and the output of reducer is the final output.

\* Steps in Map Reduce

- The map takes data in the form of pairs and returns a list of < key, value > pairs. The keys will not be unique in this case.

- Using the output of map, sort and shuffle are applied by the Hado-op architecture. This sort and shuffle alts on these list of < key, value > pairs and sends out unique keys and a list of values associated with this unique key < key list (values) >.

value > pairs and sends out unique keys and a list of values associated with this unique key < key list (values) >.

An output of sort and shuffle sent to the reducer phase. The reducer performs a defined function on a list of values for unique keys, and final output < key, value > will be stoned / displayed.

\* Sout and shuffle

The sout and shuffle occur on the output of Mapper and before the reducer when the Mapper task is complete, the results are souled by key, partitioned if there are multiple reducers, and then written to disk. Voing the input from each Mapper < k2, v2>, we collect all the values for each imique key k2. The output from the

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The state of the s	challe phase in the form of $\langle k2, list (V2) \rangle$ is sent as input to redicer phase.							
V V	reducer phase							
*	Map reduce word count	Example						
	In Map reduce word count example, we find the frequency of each							
	word. Here, the note of Mapper is to Map the keys to existing values and the note of Reducer is to garriegate, the keys of common							
	values. So, weighting	is represented in	the logue of	reu-value pain				
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	Spliting Mo	apping Shuffling	Reducing	Final				
4		The grand of	- Nonwrig	result				
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		ear,   Bear, 1 >	Reas 2					
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	/ Can Can River → Co	12,1 (Cas. 1)		Deer, 2				
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		ear, 1 River 1	CCEA					
	Conclusion:							
	Thus we have ourcest	ully imple.	the word com	t program				
	in java		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	progravi				
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