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	Ain-Demonstrate Hadoop Distributed File system
	Theory.  Itadoop is a free Java based programming frameworks that supports the processing of large data sets in a distributed computing environment
0	Hadoop make it possible to sun opplication on system with thousands of node involving thousands of terabytes
	Its distributed File System: Fadilitate rapid data transfer rates among node follows the system to continue operating uninterrupted in a case of a node failor
•	Hadoop was inspired by googles Mapreduce, a software framework in which on application is broken down into numerous small parts. Any of there ports can be on any now in the cluster
	Hudoop is used by - Soogle - Yahoo - IBM
	Preferred US  - Windows  - Linux
	Teacher's Sign.:

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	An imp part about ktadoop is software library
	There is longe libbory of program that complement
	the base Hadoop Fromework & give componies
	the specific took they heed.
	Hadoop is on open-source fromework that allows
	to ston and process big data in a distributed
	environement accross clusters of Computers using
0	simple programing model
	Concusion -
	we understood the concepts of Hadoop +
	implemented all basic Hadoop commonds succeptilly
0	
<u></u>	
	Teacher's Sign.:

#### 1. List

```
[cloudera@quickstart ~]$ hadoop fs -ls
Found 6 items
drwxr-xr-x

    cloudera cloudera

                                          0 2019-07-29 22:25 AMT

    cloudera cloudera

drwxr-xr-x
                                          0 2019-08-08 03:13 Student
- rw- r- - r- -
             1 cloudera cloudera
                                          22 2019-07-29 22:41 file2.txt
- rw- r- - r- -
             1 cloudera cloudera
                                         14 2019-08-07 03:17 my.txt
drwxr-xr-x - cloudera cloudera
                                          0 2019-08-07 03:08 practice
drwxr-xr-x - cloudera cloudera
                                          0 2019-08-07 03:02 vesit
```

#### 2. directory

# [cloudera@quickstart ~]\$ hadoop fs -mkdir richa

```
[cloudera@quickstart ~]$ hadoop fs -ls
Found 7 items
drwxr-xr-x - cloudera cloudera
                                      0 2019-07-29 22:25 AMT
drwxr-xr-x - cloudera cloudera
                                      0 2019-08-08 03:13 Student
-rw-r--r-- 1 cloudera cloudera
                                     22 2019-07-29 22:41 file2.txt
-rw-r--r-- 1 cloudera cloudera
                                    14 2019-08-07 03:17 my.txt
drwxr-xr-x - cloudera cloudera
                                     0 2019-08-07 03:08 practice
drwxr-xr-x - cloudera cloudera
                                      0 2019-08-12 21:44 richa
drwxr-xr-x - cloudera cloudera
                                     0 2019-08-07 03:02 vesit
```

#### Document

```
[cloudera@quickstart ~]$ cat -> richa_doc27.txt
RICHA
BHATIA
PIZZA
ICECREAM
```

### 4. Put

## [cloudera@quickstart ~]\$ hadoop fs -put richa doc27.txt richa

```
[cloudera@quickstart ~]$ hadoop fs -ls richa
Found 2 items
-rw-r--r-- 1 cloudera cloudera 28 2019-08-12 21:44 richa/richa_doc.txt
-rw-r--r-- 1 cloudera cloudera 28 2019-08-12 21:49 richa/richa_doc27.t
```

```
[cloudera@quickstart ~]$ hadoop fs -cat richa/richa_doc27.txt
RICHA
BHATIA
PIZZA
ICECREAM
```

#### 5. cp command

## [cloudera@quickstart ~]\$ hadoop fs -mkdir richacp

```
[cloudera@quickstart ~]$ hadoop fs -cp richa/richa_doc27.txt richacp/richa_doc27
.txt
```

```
[cloudera@quickstart ~]$ hadoop fs -ls richacp
Found 1 items
-rw-r--r-- 1 cloudera cloudera 28 2019-08-12 21:52 richacp/richa_doc27
.txt
[cloudera@quickstart ~]$ hadoop fs -cat richacp/richa_doc27.txt
RICHA
BHATIA
PIZZA
ICECREAM
```

#### 6. get command

# [cloudera@quickstart ~]\$ hadoop fs -get richacp/richa\_doc27.txt

```
[cloudera@quickstart ~]$ ls
                                                         richa_doc.txt
                            kerberos
abc.txt
a.txt
                            lib
                                                         Student
cloudera-manager
                            MatrixVectorMultiplication Templates
                                                         Videos
cm_api.py
                            mine.txt
D17B65
                            mine.txt~
                                                         wc.jar
Desktop
                            Music
                                                         WC Mapper.class
doc.txt
                            my.txt~
                                                         WC Mapper.java
Documents
                            OutputDir
                                                         WC Reducer.class
Downloads
                             parcels
                                                         WC Reducer, java
eclipse
                             Pictures
                                                         WC Runner. java
enterprise-deployment.json
                            Public
                                                         WC_Runner.java~
express-deployment.json
                             richa
                                                         wordcount
file1.txt
                             richa doc27.txt
                                                         workspace
```

#### 7. rm command

```
[cloudera@quickstart ~]$ hadoop fs -rm richa/richa_doc27.txt
Deleted richa/richa_doc27.txt
[cloudera@quickstart ~]$ hadoop fs -ls richa
Found 1 items
-rw-r--r-- 1 cloudera cloudera 28 2019-08-12 21:44 richa/richa_doc.txt
[cloudera@quickstart ~]$ ■
```