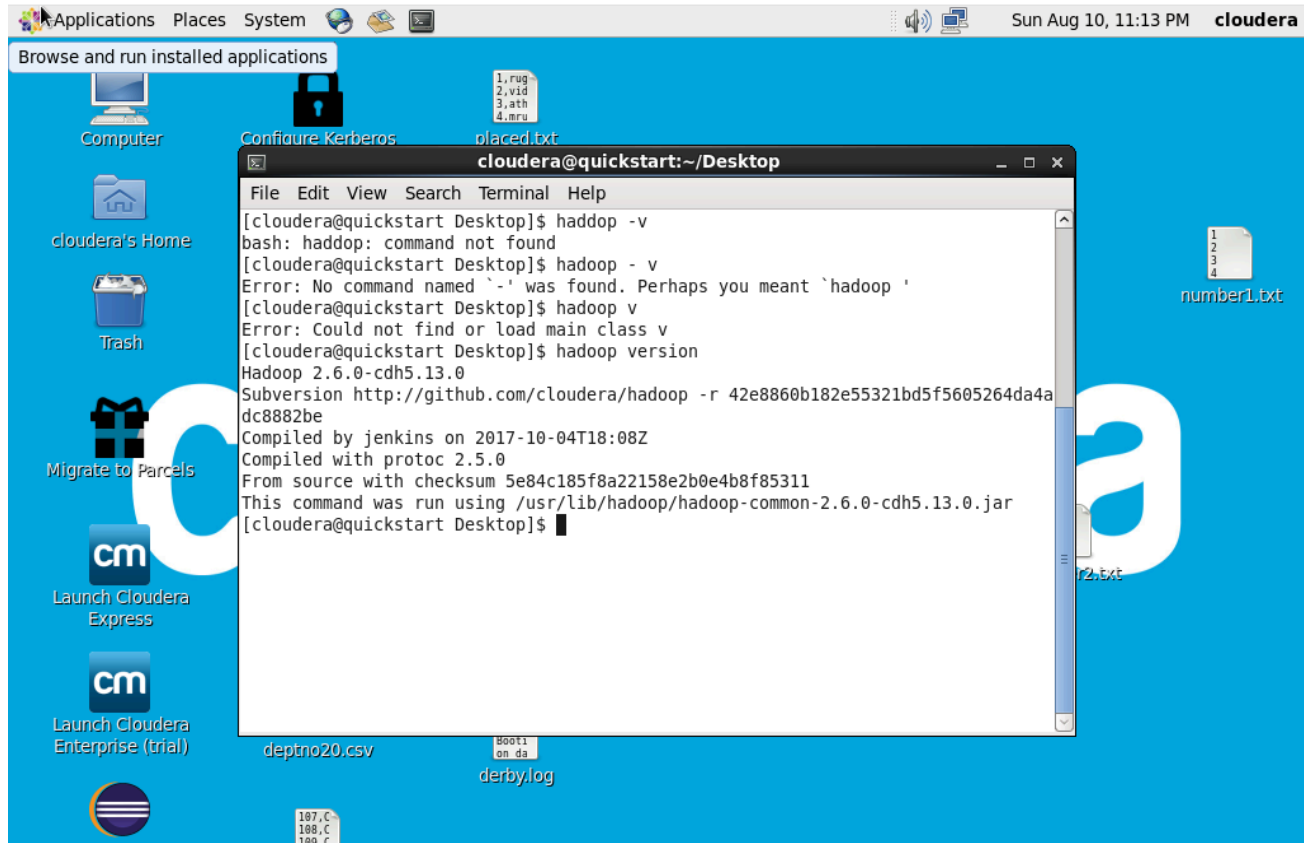


Program No:	4
Roll No :	1563
Title of Program :	HDFS Commands
Objective :	Implement HDFS Commands

Source Code:

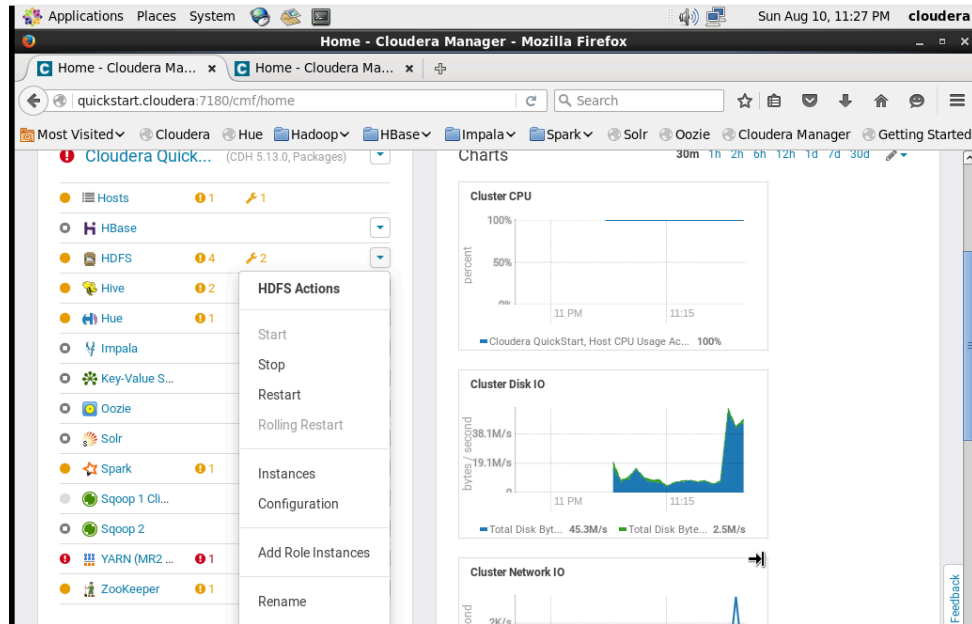
Hadoop Version



The screenshot shows a Linux desktop with a blue background. A terminal window titled "cloudera@quickstart: ~/Desktop" is open, displaying the following commands and output:

```
[cloudera@quickstart Desktop]$ haddop -v
bash: haddop: command not found
[cloudera@quickstart Desktop]$ hadoop - v
Error: No command named '-' was found. Perhaps you meant 'hadoop '
[cloudera@quickstart Desktop]$ hadoop v
Error: Could not find or load main class v
[cloudera@quickstart Desktop]$ hadoop version
Hadoop 2.6.0-cdh5.13.0
Subversion http://github.com/cloudera/hadoop -r 42e8860b182e55321bd5f5605264da4a
dc8882be
Compiled by jenkins on 2017-10-04T18:08Z
Compiled with protoc 2.5.0
From source with checksum 5e84c185f8a22158e2b0e4b8f85311
This command was run using /usr/lib/hadoop/hadoop-common-2.6.0-cdh5.13.0.jar
[cloudera@quickstart Desktop]$
```

The desktop also shows various icons on the left sidebar, including "Computer", "cloudera's Home", "Trash", "Migrate to Parcels", "Launch Cloudera Express", and "Launch Cloudera Enterprise (trial)". The top bar indicates the date and time as "Sun Aug 10, 11:13 PM" and the user as "cloudera".



```

cloudera@quickstart:~/Desktop
File Edit View Search Terminal Help
[cloudera@quickstart Desktop]$ sudo ls
clicks.txt      Eclipse.desktop  number2.txt      Scrape.py
company.txt     Enterprise.desktop number2.txt~      Scrape.py~
company.txt~    Express.desktop  Old Firefox Data student.csv
deptno10.csv    input2.txt       order.csv         student.csv~
deptno10.csv~   input.txt~       order.csv~        user.txt
deptno20.csv    Kerberos.desktop Parcels.desktop   user.txt~
deptno30.csv    number1.txt      placed.txt
derby.log       number1.txt~     placed.txt~
[cloudera@quickstart Desktop]$ sudo ls -l
ls: cannot access -: No such file or directory
ls: cannot access l: No such file or directory
[cloudera@quickstart Desktop]$ sudo ls -l
total 92
-rw-rw-r-- 1 cloudera cloudera 480 Oct 30 2024 clicks.txt
-rw-rw-r-- 1 cloudera cloudera 67 Oct 30 2024 company.txt
-rw-rw-r-- 1 cloudera cloudera 0 Oct 30 2024 company.txt~
-rw-rw-r-- 1 cloudera cloudera 51 Aug 9 2024 deptno10.csv
-rw-rw-r-- 1 cloudera cloudera 0 Aug 9 2024 deptno10.csv~
-rw-rw-r-- 1 cloudera cloudera 50 Aug 9 2024 deptno20.csv
-rw-rw-r-- 1 cloudera cloudera 50 Aug 9 2024 deptno30.csv
-rw-rw-r-- 1 cloudera cloudera 672 Oct 30 2024 derby.log
-rwxrwxr-x 1 cloudera cloudera 281 Oct 23 2017 Eclipse.desktop
-rwxrwxr-x 1 cloudera cloudera 284 Oct 23 2017 Enterprise.desktop

```

```

cloudera@quickstart:~/mydata
File Edit View Search Terminal Help
abc.txt Downloads mydata Scrape.py
cloudera-manager eclipse parcels Scrape.py~
cm_api.py enterprise-deployment.json Pictures Templates
derby.log express-deployment.json pig_1730270897902.log Videos
Desktop input.txt pig_1730275739497.log workspace
Documents kerberos pig_1730277303656.log
dos lib
dos- Music
[cloudera@quickstart ~]$ cd mydata
[cloudera@quickstart mydata]$ input.txt
bash: input.txt: command not found
[cloudera@quickstart mydata]$ vi input.txt
[cloudera@quickstart mydata]$ ls -l
total 4
-rw-rw-r-- 1 cloudera cloudera 99 Aug 10 23:42 input.txt
[cloudera@quickstart mydata]$ cat input
]cat: input: No such file or directory
[cloudera@quickstart mydata]$ cat input.txt
deer bear bear car
bear car deer river
sewer fever car bear
car bear car river
sewer car bear deer
[cloudera@quickstart mydata]$

```

```
cloudera@quickstart:~/mydata
File Edit View Search Terminal Help
bear car deer river
sewer fever car bear
car bear car river
sewer car bear deer
[cloudera@quickstart mydata]$ hdfs dfs -ls
Found 14 items
drwx----- - cloudera cloudera      0 2024-10-30 05:00 .Trash
drwxr-xr-x - cloudera cloudera      0 2024-10-30 03:44 .sparkStaging
drwx----- - cloudera cloudera      0 2024-10-30 05:11 .staging
-rw-r--r-- 1 cloudera cloudera    480 2024-10-30 01:07 clicks.txt
-rw-r--r-- 1 cloudera cloudera     67 2024-10-30 00:42 company.txt
-rw-r--r-- 1 cloudera cloudera     38 2024-08-09 02:14 input2.txt
drwxr-xr-x - cloudera cloudera      0 2024-08-09 00:57 mydir
-rw-r--r-- 1 cloudera cloudera     11 2024-10-30 04:07 number1.txt
-rw-r--r-- 1 cloudera cloudera     12 2024-10-30 04:07 number2.txt
drwxr-xr-x - cloudera cloudera      0 2024-08-09 02:31 output
-rw-r--r-- 1 cloudera cloudera    118 2024-10-30 00:14 placed.txt
-rw-r--r-- 1 cloudera cloudera   23410 2024-08-09 03:05 scraped
-rw-r--r-- 1 cloudera cloudera     72 2024-10-30 01:07 user.txt
drwxr-xr-x - cloudera cloudera      0 2024-08-09 02:07 wordcount
[cloudera@quickstart mydata]$ hdfs dfs -mkdir sid
bash: hdfs: command not found
[cloudera@quickstart mydata]$ hdfs dfs -mkdir sid
[cloudera@quickstart mydata]$
```

```

cloudera@quickstart:~/mydata
File Edit View Search Terminal Help
[cloudera@quickstart mydata]$ hdfs dfs touchz /sid/sid.txt
touchz: Unknown command
Did you mean -touchz? This command begins with a dash.
[cloudera@quickstart mydata]$ hdfs dfs -touchz /sid/sid.txt
touchz: `/sid/sid.txt': No such file or directory
[cloudera@quickstart mydata]$ hdfs dfs -touchz sid/sid.txt
[cloudera@quickstart mydata]$ hdfs dfs -ls
Found 15 items
drwx----- - cloudera cloudera      0 2025-08-11 00:00 .Trash
drwxr-xr-x - cloudera cloudera      0 2024-10-30 03:44 .sparkStaging
drwx----- - cloudera cloudera      0 2024-10-30 05:11 .staging
-rw-r--r-- 1 cloudera cloudera    480 2024-10-30 01:07 clicks.txt
-rw-r--r-- 1 cloudera cloudera     67 2024-10-30 00:42 company.txt
-rw-r--r-- 1 cloudera cloudera     38 2024-08-09 02:14 input2.txt
drwxr-xr-x - cloudera cloudera      0 2024-08-09 00:57 mydir
-rw-r--r-- 1 cloudera cloudera     11 2024-10-30 04:07 number1.txt
-rw-r--r-- 1 cloudera cloudera     12 2024-10-30 04:07 number2.txt
drwxr-xr-x - cloudera cloudera      0 2024-08-09 02:31 output
-rw-r--r-- 1 cloudera cloudera    118 2024-10-30 00:14 placed.txt
-rw-r--r-- 1 cloudera cloudera   23410 2024-08-09 03:05 scraped
drwxr-xr-x - cloudera cloudera      0 2025-08-11 00:04 sid
-rw-r--r-- 1 cloudera cloudera     72 2024-10-30 01:07 user.txt
drwxr-xr-x - cloudera cloudera      0 2024-08-09 02:07 wordcount
[cloudera@quickstart mydata]$

```

```

Applications Places System cloudera@quickstart:~/mydata
File Edit View Search Preferred Web Browser Browse the Web
[cloudera@quickstart mydata]$ hdfs dfs -ls
Found 15 items
drwx----- - cloudera cloudera      0 2025-08-11 00:00 .Trash
drwxr-xr-x - cloudera cloudera      0 2024-10-30 03:44 .sparkStaging
drwx----- - cloudera cloudera      0 2024-10-30 05:11 .staging
-rw-r--r-- 1 cloudera cloudera    480 2024-10-30 01:07 clicks.txt
-rw-r--r-- 1 cloudera cloudera     67 2024-10-30 00:42 company.txt
-rw-r--r-- 1 cloudera cloudera     38 2024-08-09 02:14 input2.txt
drwxr-xr-x - cloudera cloudera      0 2024-08-09 00:57 mydir
-rw-r--r-- 1 cloudera cloudera     11 2024-10-30 04:07 number1.txt
-rw-r--r-- 1 cloudera cloudera     12 2024-10-30 04:07 number2.txt
drwxr-xr-x - cloudera cloudera      0 2024-08-09 02:31 output
-rw-r--r-- 1 cloudera cloudera    118 2024-10-30 00:14 placed.txt
-rw-r--r-- 1 cloudera cloudera   23410 2024-08-09 03:05 scraped
drwxr-xr-x - cloudera cloudera      0 2025-08-11 00:04 sid
-rw-r--r-- 1 cloudera cloudera     72 2024-10-30 01:07 user.txt
drwxr-xr-x - cloudera cloudera      0 2024-08-09 02:07 wordcount
[cloudera@quickstart mydata]$ ls
input.txt
[cloudera@quickstart mydata]$ hdfs dfs -copyFromLocal input.txt /user/cloudera/s
id
[cloudera@quickstart mydata]$ hdfs dfs -ls sid/
Found 2 items
-rw-r--r-- 1 cloudera cloudera     99 2025-08-11 00:10 sid/input.txt
-rw-r--r-- 1 cloudera cloudera      0 2025-08-11 00:04 sid/sid.txt
[cloudera@quickstart mydata]$ cat > a.txt
go ahead make my day
^C
[cloudera@quickstart mydata]$ hdfs dfs -ls om/
ls: 'om/': No such file or directory
[cloudera@quickstart mydata]$ hdfs dfs -ls sid/
Found 2 items
-rw-r--r-- 1 cloudera cloudera     99 2025-08-11 00:10 sid/input.txt
-rw-r--r-- 1 cloudera cloudera      0 2025-08-11 00:04 sid/sid.txt

```

```
Found 2 items
-rw-r--r-- 1 cloudera cloudera      99 2025-08-11 00:10 sid/input.txt
-rw-r--r-- 1 cloudera cloudera       0 2025-08-11 00:04 sid/sid.txt
[cloudera@quickstart mydata]$ cat ->b.txt
I'll be back^C
[cloudera@quickstart mydata]$ hdfs dfs -mv b.txt /user/cloudera/sid
mv: `b.txt': No such file or directory
[cloudera@quickstart mydata]$ hdfs dfs -ls
Found 15 items
drwx----- - cloudera cloudera      0 2025-08-11 00:00 .Trash
drwxr-xr-x - cloudera cloudera      0 2024-10-30 03:44 .sparkStaging
drwx----- - cloudera cloudera      0 2024-10-30 05:11 .staging
-rw-r--r-- 1 cloudera cloudera    480 2024-10-30 01:07 clicks.txt
-rw-r--r-- 1 cloudera cloudera     67 2024-10-30 00:42 company.txt
-rw-r--r-- 1 cloudera cloudera     38 2024-08-09 02:14 input2.txt
drwxr-xr-x - cloudera cloudera      0 2024-08-09 00:57 mydir
-rw-r--r-- 1 cloudera cloudera     11 2024-10-30 04:07 number1.txt
-rw-r--r-- 1 cloudera cloudera     12 2024-10-30 04:07 number2.txt
drwxr-xr-x - cloudera cloudera      0 2024-08-09 02:31 output
-rw-r--r-- 1 cloudera cloudera    118 2024-10-30 00:14 placed.txt
-rw-r--r-- 1 cloudera cloudera  23410 2024-08-09 03:05 scraped
drwxr-xr-x - cloudera cloudera      0 2025-08-11 00:10 sid
-rw-r--r-- 1 cloudera cloudera     72 2024-10-30 01:07 user.txt
drwxr-xr-x - cloudera cloudera      0 2024-08-09 02:07 wordcount
[cloudera@quickstart mydata]$ hdfs dfs -mkdir sid2
[cloudera@quickstart mydata]$ hdfs dfs -ls /sid
ls: `/sid': No such file or directory
[cloudera@quickstart mydata]$ hdfs dfs -ls sid
Found 2 items
-rw-r--r-- 1 cloudera cloudera      99 2025-08-11 00:10 sid/input.txt
-rw-r--r-- 1 cloudera cloudera       0 2025-08-11 00:04 sid/sid.txt
[cloudera@quickstart mydata]$ hdfs dfs -ls sid2
[cloudera@quickstart mydata]$ hdfs dfs -mv /user/cloudera/sid/a.txt /user/cloudera/sid
mv: `/user/cloudera/sid/a.txt': No such file or directory
```



```
[cloudera@quickstart mydata]$ hdfs dfs -du /user/cloudera/ sid
0      0      /user/cloudera/.Trash
28950  28950  /user/cloudera/.sparkStaging
0      0      /user/cloudera/.staging
480    480    /user/cloudera/clicks.txt
67     67     /user/cloudera/company.txt
38     38     /user/cloudera/input2.txt
0      0      /user/cloudera/mydir
11     11     /user/cloudera/number1.txt
12     12     /user/cloudera/number2.txt
0      0      /user/cloudera/om2
28     28     /user/cloudera/output
118    118    /user/cloudera/placed.txt
23410  23410  /user/cloudera/scraped
99     99     /user/cloudera/sid
0      0      /user/cloudera/sid2
72     72     /user/cloudera/user.txt
143    143    /user/cloudera/wordcount
99 99 sid/input.txt
0 0 sid/sid.txt
[cloudera@quickstart mydata]$
```

```
[cloudera@quickstart mydata]$ hdfs dfs -dus /user/cloudera/sid
dus: DEPRECATED: Please use 'du -s' instead.
99 99 /user/cloudera/sid
[cloudera@quickstart mydata]$
```

Output: