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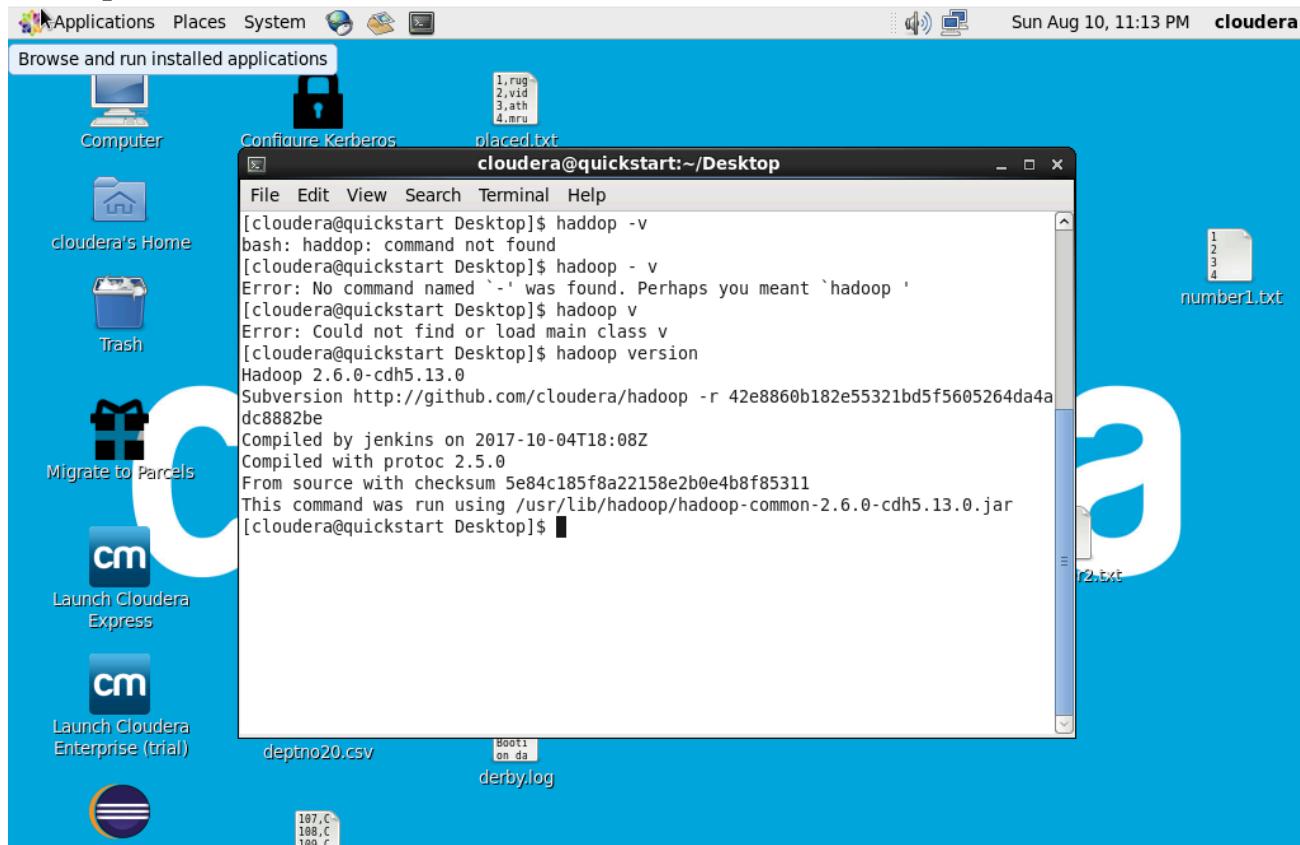
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<b>Program No:</b>	4
<b>Roll No :</b>	1563
<b>Title of Program :</b>	HDFS Commands
<b>Objective :</b>	Implement HDFS Commands

### Source Code:

#### Hadoop Version



The screenshot shows a Linux desktop environment with a blue theme. A terminal window titled "placed.txt" is open, showing the following command and its output:

```
[cloudera@quickstart Desktop]$ hadoop -v
bash: hadoop: 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 e84c185f8a22158e2b0e4b8f85311
This command was run using /usr/lib/hadoop/hadoop-common-2.6.0-cdh5.13.0.jar
[cloudera@quickstart Desktop]$
```

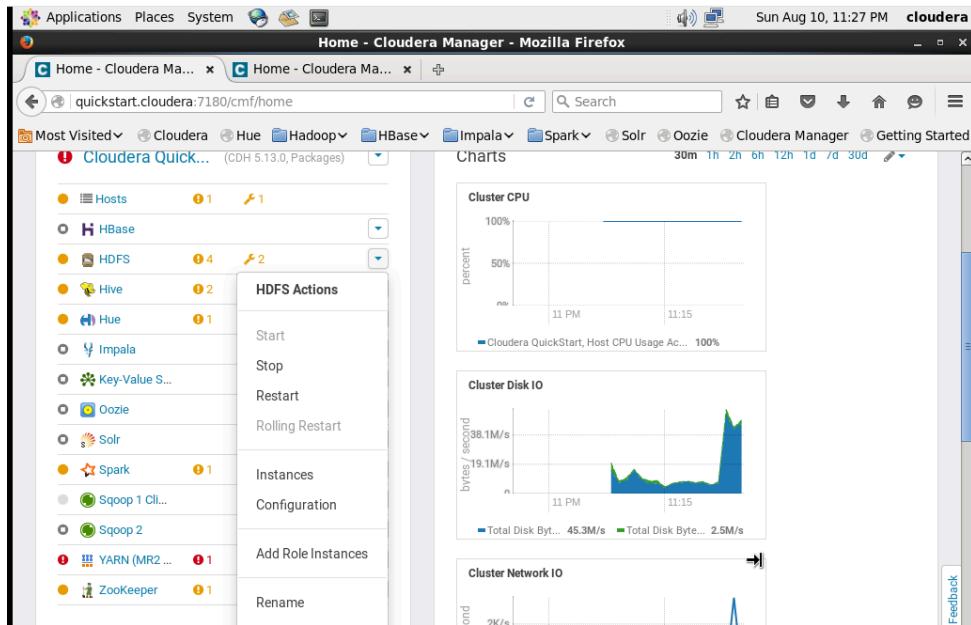
The desktop background features a large white letter 'a' watermark. On the desktop, there are several icons: Computer, Configure Kerberos, placed.txt, number1.txt, 12.txt, deptno20.csv, derby.log, 187.C, 188.C, and 189.C.



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```
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      user.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          Public
dos-          Music        scraped

[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]$ █
```



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```
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]$
```



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```
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]$
```



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```
Applications Places System ⌂ ⌃ ⌄ cloudera@quickstart:~/mydata Mon Aug 11, 12:20 AM cloudera
File Edit View Search Preferred Web Browser Browse the Web
[cloudera@quickstart mydata]$ hdfs dfs -ls
Found 15 items
drwx----- 1 cloudera cloudera 0 2025-08-11 00:00 .Trash
drwxr-xr-x 1 cloudera cloudera 0 2024-10-30 03:44 .sparkStaging
drwx----- 1 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 1 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 1 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 1 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 1 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/
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
```



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```
[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:**