

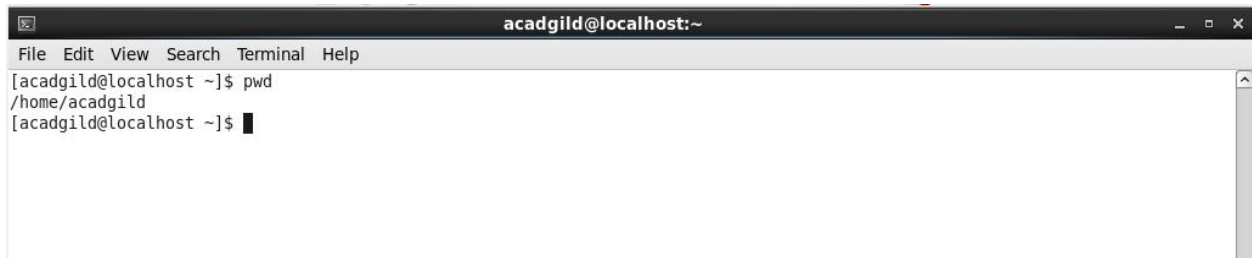
# Assignment 1.2

## Objective:-

Understanding Following Linux commands.

### 1. pwd:-

pwd command is used for showing the parent working directory. This command display the absolute path of the directory in which user is currently working as shown below

A terminal window titled 'acadgild@localhost:~' with a menu bar (File, Edit, View, Search, Terminal, Help). The terminal shows the command 'pwd' being executed, resulting in the output '/home/acadgild'.

```
acadgild@localhost:~  
File Edit View Search Terminal Help  
[acadgild@localhost ~]$ pwd  
/home/acadgild  
[acadgild@localhost ~]$
```

### 2. vi:-

vi command is used to open any file in vi editor for editing purposes. There are two modes used in vi editor, one is insert mode which is used for editing the contents of the file, other is command mode which is used to execute copy, paste and even for saving the contents of the file. Insert mode is activated by pressing i key and command mode is activated by pressing esc key. Default mode of vi editor is command mode.

```
[acadgild@localhost ~]$ vi testfile.txt  
[acadgild@localhost ~]$
```



```
acadgild@localhost:~  
File Edit View Search Terminal Help  
[acadgild@localhost ~]$ ls -lrt  
total 874808  
drwxr-xr-x. 9 acadgild acadgild 4096 Apr 27 2015 sqoop-1.4.6.bin_hadoop-2.0.4-alpha  
drwxr-xr-x. 16 acadgild acadgild 4096 Jun 2 2016 pig-0.16.0  
drwxr-xr-x. 8 acadgild acadgild 4096 Jun 22 2016 jdk1.8.0_101  
drwxr-xr-x. 2 acadgild acadgild 4096 Aug 11 2016 Videos  
drwxr-xr-x. 2 acadgild acadgild 4096 Aug 11 2016 Templates  
drwxr-xr-x. 2 acadgild acadgild 4096 Aug 11 2016 Public  
drwxr-xr-x. 2 acadgild acadgild 4096 Aug 11 2016 Pictures  
drwxr-xr-x. 2 acadgild acadgild 4096 Aug 11 2016 Music  
drwxr-xr-x. 2 acadgild acadgild 4096 Aug 11 2016 Documents  
-rw-rw-r--. 1 acadgild acadgild 183456778 Aug 11 2016 jdk-8u101-linux-i586.tar.gz  
drwxrwxr-x. 4 acadgild acadgild 4096 Aug 11 2016 Softwares  
-rw-rw-r--. 1 acadgild acadgild 212046774 Aug 11 2016 hadoop-2.7.2.tar.gz  
drwxrwxr-x. 4 acadgild acadgild 4096 Aug 11 2016 hadoop  
drwxr-xr-x. 10 acadgild acadgild 4096 Aug 12 2016 hadoop-2.7.2  
-rw-rw-r--. 1 acadgild acadgild 52550402 Aug 12 2016 apache-flume-1.6.0-bin.tar.gz  
-rw-rw-r--. 1 acadgild acadgild 149599799 Aug 12 2016 apache-hive-2.1.0-bin.tar.gz  
-rw-rw-r--. 1 acadgild acadgild 103847513 Aug 12 2016 hbase-1.0.3-bin.tar.gz  
-rw-rw-r--. 1 acadgild acadgild 177279333 Aug 12 2016 pig-0.16.0.tar.gz  
-rw-rw-r--. 1 acadgild acadgild 2615 Aug 12 2016 pig_1470979104717.log  
drwxrwxr-x. 9 acadgild acadgild 4096 Aug 12 2016 apache-hive-2.1.0-bin  
drwxrwxr-x. 5 acadgild acadgild 4096 Aug 12 2016 metastore_db.tmp  
drwxrwxr-x. 8 acadgild acadgild 4096 Aug 16 2016 hbase-1.0.3  
-rw-rw-r--. 1 acadgild acadgild 2560 Aug 18 2016 pig_1471462105724.log  
drwxrwxr-x. 3 acadgild acadgild 4096 Aug 18 2016 eclipse  
drwxrwxr-x. 5 acadgild acadgild 4096 Aug 18 2016 workspace  
drwxr-xr-x. 2 acadgild acadgild 4096 Aug 18 2016 Desktop  
-rw-rw-r--. 1 acadgild acadgild 16870735 Aug 18 2016 sqoop-1.4.6.bin_hadoop-2.0.4-alpha.tar.gz  
drwxr-xr-x. 4 acadgild acadgild 4096 Aug 18 2016 Downloads  
-rw-rw-r--. 1 acadgild acadgild 12939 Aug 18 2016 employee.java  
drwxrwxr-x. 7 acadgild acadgild 4096 Aug 18 2016 apache-flume-1.6.0-bin  
-rw-rw-r--. 1 acadgild acadgild 2560 Sep 16 10:16 pig_1505537096355.log  
drwxrwxr-x. 5 acadgild acadgild 4096 Sep 16 10:19 metastore_db  
-rw-rw-r--. 1 acadgild acadgild 653 Sep 16 10:19 derby.log  
drwxrwxr-x. 3 acadgild acadgild 4096 Sep 16 10:20 hdfs:  
-rw-rw-r--. 1 acadgild acadgild 6 Sep 16 10:28 testfile.txt  
-rw-rw-r--. 1 acadgild acadgild 0 Sep 16 10:29 data.txt  
[acadgild@localhost ~]$
```

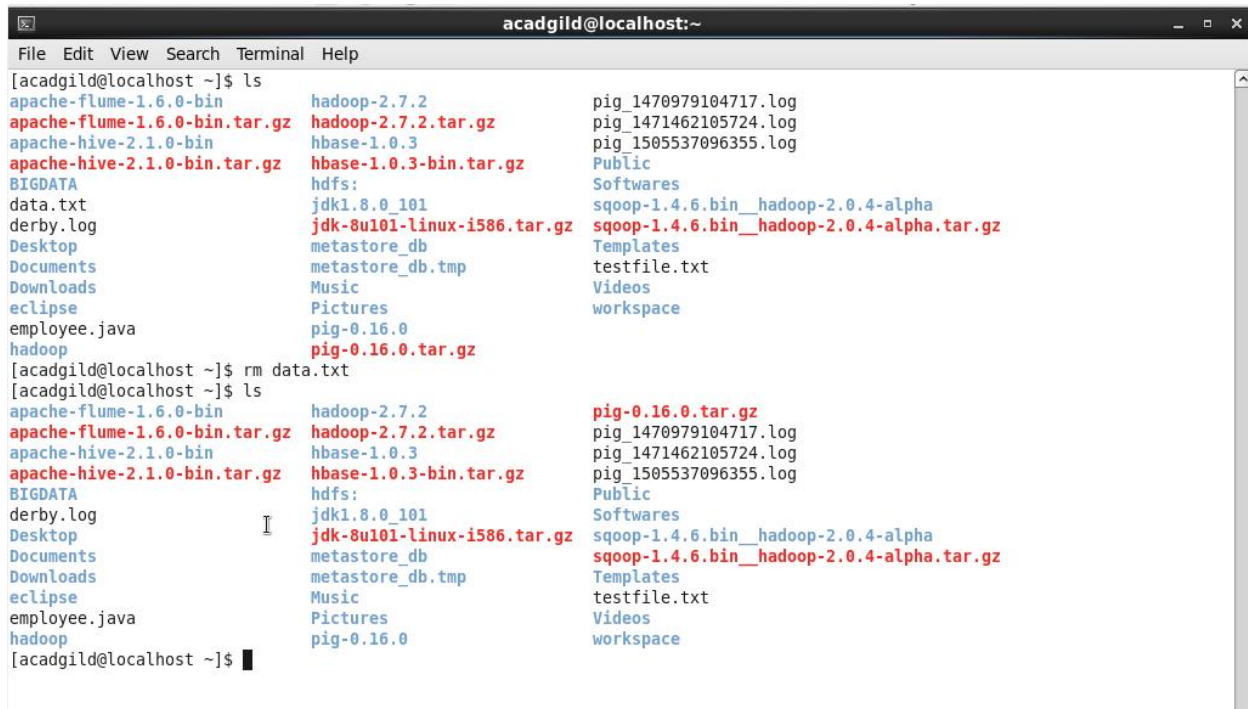
#### 4. mkdir:-

mkdir command is used to create a new directory.

```
acadgild@localhost:~  
File Edit View Search Terminal Help  
[acadgild@localhost ~]$ mkdir BIGDATA  
[acadgild@localhost ~]$ ls  
apache-flume-1.6.0-bin          hadoop-2.7.2          pig_1470979104717.log  
apache-flume-1.6.0-bin.tar.gz hadoop-2.7.2.tar.gz   pig_1471462105724.log  
apache-hive-2.1.0-bin          hbase-1.0.3          pig_1505537096355.log  
apache-hive-2.1.0-bin.tar.gz  hbase-1.0.3-bin.tar.gz Public  
BIGDATA                      hdfs:                Softwares  
data.txt                     jdk1.8.0_101         sqoop-1.4.6.bin_hadoop-2.0.4-alpha  
derby.log                    jdk-8u101-linux-i586.tar.gz sqoop-1.4.6.bin_hadoop-2.0.4-alpha.tar.gz  
Desktop                      metastore_db          Templates  
Documents                    metastore_db.tmp      testfile.txt  
Downloads                    Music                 Videos  
eclipse                      Pictures              workspace  
employee.java                pig-0.16.0  
hadoop                       pig-0.16.0.tar.gz  
[acadgild@localhost ~]$
```

## 5. rm:-

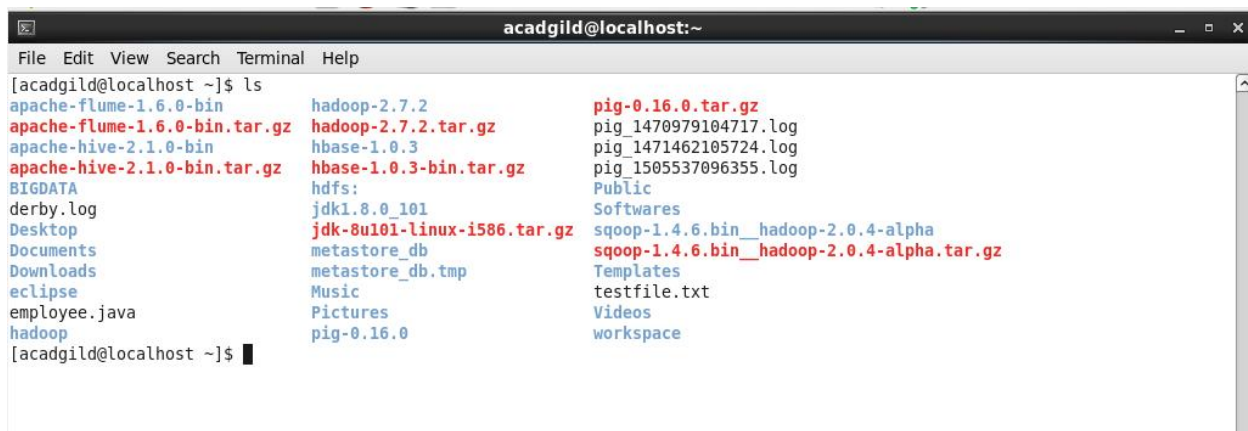
rm command is used to delete a file. User can even delete directories by using this command in the form of `rm -rf directory_name`.



```
acadgild@localhost:~  
File Edit View Search Terminal Help  
[acadgild@localhost ~]$ ls  
apache-flume-1.6.0-bin          hadoop-2.7.2          pig_1470979104717.log  
apache-flume-1.6.0-bin.tar.gz  hadoop-2.7.2.tar.gz  pig_1471462105724.log  
apache-hive-2.1.0-bin          hbase-1.0.3          pig_1505537096355.log  
apache-hive-2.1.0-bin.tar.gz  hbase-1.0.3-bin.tar.gz Public  
BIGDATA                      hdfs:                Softwares  
data.txt                     jdk1.8.0_101         sqoop-1.4.6.bin_hadoop-2.0.4-alpha  
derby.log                   jdk-8u101-linux-i586.tar.gz sqoop-1.4.6.bin_hadoop-2.0.4-alpha.tar.gz  
Desktop                     metastore_db          Templates  
Documents                   metastore_db.tmp     testfile.txt  
Downloads                   Music                Videos  
eclipse                     Pictures             workspace  
employee.java               pig-0.16.0  
hadoop                      pig-0.16.0.tar.gz  
[acadgild@localhost ~]$ rm data.txt  
[acadgild@localhost ~]$ ls  
apache-flume-1.6.0-bin          hadoop-2.7.2          pig-0.16.0.tar.gz  
apache-flume-1.6.0-bin.tar.gz  hadoop-2.7.2.tar.gz  pig_1470979104717.log  
apache-hive-2.1.0-bin          hbase-1.0.3          pig_1471462105724.log  
apache-hive-2.1.0-bin.tar.gz  hbase-1.0.3-bin.tar.gz pig_1505537096355.log  
BIGDATA                      hdfs:                Public  
derby.log                   jdk1.8.0_101         Softwares  
Desktop                     jdk-8u101-linux-i586.tar.gz sqoop-1.4.6.bin_hadoop-2.0.4-alpha  
Documents                   metastore_db          sqoop-1.4.6.bin_hadoop-2.0.4-alpha.tar.gz  
Downloads                   metastore_db.tmp     Templates  
eclipse                     Music                testfile.txt  
employee.java               Pictures             Videos  
hadoop                      pig-0.16.0          workspace  
[acadgild@localhost ~]$
```

## 6. ls:-

ls command is used to list the name of all files and directories present in the parent working directories. `ls -lrt` option of this command displays the properties(metadata) of the files and directories.



```
acadgild@localhost:~  
File Edit View Search Terminal Help  
[acadgild@localhost ~]$ ls  
apache-flume-1.6.0-bin          hadoop-2.7.2          pig-0.16.0.tar.gz  
apache-flume-1.6.0-bin.tar.gz  hadoop-2.7.2.tar.gz  pig_1470979104717.log  
apache-hive-2.1.0-bin          hbase-1.0.3          pig_1471462105724.log  
apache-hive-2.1.0-bin.tar.gz  hbase-1.0.3-bin.tar.gz pig_1505537096355.log  
BIGDATA                      hdfs:                Public  
derby.log                   jdk1.8.0_101         Softwares  
Desktop                     jdk-8u101-linux-i586.tar.gz sqoop-1.4.6.bin_hadoop-2.0.4-alpha  
Documents                   metastore_db          sqoop-1.4.6.bin_hadoop-2.0.4-alpha.tar.gz  
Downloads                   metastore_db.tmp     Templates  
eclipse                     Music                testfile.txt  
employee.java               Pictures             Videos  
hadoop                      pig-0.16.0          workspace  
[acadgild@localhost ~]$
```

## 7. echo:-

echo command is used to display output on standard output i.e on screen.

A terminal window titled 'acadgild@localhost:~' with a menu bar (File, Edit, View, Search, Terminal, Help). The command history shows: [acadgild@localhost ~]\$ echo ACADGILD, ACADGILD, [acadgild@localhost ~]\$ echo \$HOME, /home/acadgild, [acadgild@localhost ~]\$

```
acadgild@localhost:~  
File Edit View Search Terminal Help  
[acadgild@localhost ~]$ echo ACADGILD  
ACADGILD  
[acadgild@localhost ~]$ echo $HOME  
/home/acadgild  
[acadgild@localhost ~]$
```

## 8. cat:-

cat command is used to display the contents of the file.

A terminal window titled 'acadgild@localhost:~' with a menu bar (File, Edit, View, Search, Terminal, Help). The command history shows: [acadgild@localhost ~]\$ ls, followed by a long list of files and directories in three columns, [acadgild@localhost ~]\$ cat testfile.txt, hello, [acadgild@localhost ~]\$

```
acadgild@localhost:~  
File Edit View Search Terminal Help  
[acadgild@localhost ~]$ ls  
apache-flume-1.6.0-bin          hadoop-2.7.2          pig-0.16.0.tar.gz  
apache-flume-1.6.0-bin.tar.gz  hadoop-2.7.2.tar.gz  pig_1470979104717.log  
apache-hive-2.1.0-bin          hbase-1.0.3          pig_1471462105724.log  
apache-hive-2.1.0-bin.tar.gz  hbase-1.0.3-bin.tar.gz pig_1505537096355.log  
BIGDATA                      hdfs:                Public  
derby.log                    jdk1.8.0_101         Softwares  
Desktop                      jdk-8u101-linux-i586.tar.gz sqoop-1.4.6.bin_hadoop-2.0.4-alpha  
Documents                   metastore_db          sqoop-1.4.6.bin_hadoop-2.0.4-alpha.tar.gz  
Downloads                   metastore_db.tmp      Templates  
eclipse                     Music                testfile.txt  
employee.java               Pictures             Videos  
hadoop                      pig-0.16.0           workspace  
[acadgild@localhost ~]$ cat testfile.txt  
hello  
[acadgild@localhost ~]$
```

## 9. who:-

who command is used to display all the users logged in into the machine.

A terminal window titled 'acadgild@localhost:~' with a menu bar (File, Edit, View, Search, Terminal, Help). The command history shows: [acadgild@localhost ~]\$ who, followed by the output of the who command showing two active users, [acadgild@localhost ~]\$

```
acadgild@localhost:~  
File Edit View Search Terminal Help  
[acadgild@localhost ~]$ who  
acadgild tty1          2017-09-16 10:01 (:0)  
acadgild pts/0        2017-09-16 10:02 (:0.0)  
[acadgild@localhost ~]$
```



## 10. cd:-

cd command is used to change directory.

```
acadgild@localhost:~/BIGDATA
File Edit View Search Terminal Help
[acadgild@localhost BIGDATA]$ pwd
/home/acadgild/BIGDATA
[acadgild@localhost BIGDATA]$ cd
[acadgild@localhost ~]$ pwd
/home/acadgild
[acadgild@localhost ~]$ cd BIGDATA/
[acadgild@localhost BIGDATA]$ pwd
/home/acadgild/BIGDATA
[acadgild@localhost BIGDATA]$
```

## 11.date:-

date command displays the system date of the machine.

```
acadgild@localhost:~/BIGDATA
File Edit View Search Terminal Help
[acadgild@localhost BIGDATA]$ date
Sat Sep 16 10:49:00 IST 2017
[acadgild@localhost BIGDATA]$
```

## 12.cal:-

cal command displays the calendar on the screen.

```
acadgild@localhost:~/BIGDATA
File Edit View Search Terminal Help
[acadgild@localhost BIGDATA]$ cal
September 2017
Su Mo Tu We Th Fr Sa
      1  2
 3  4  5  6  7  8  9
10 11 12 13 14 15 16
17 18 19 20 21 22 23
24 25 26 27 28 29 30

[acadgild@localhost BIGDATA]$
```

### 13.mv:-

mv command is used to move the file from source directory to destination directory. This command is also used to rename the file.

```
acadgild@localhost:~/BIGDATA
File Edit View Search Terminal Help
[acadgild@localhost BIGDATA]$ cat > testfile1.txt
hi
i am data
^C
[acadgild@localhost BIGDATA]$ ls
testfile1.txt
[acadgild@localhost BIGDATA]$ ls ../
apache-flume-1.6.0-bin          hadoop-2.7.2                pig-0.16.0.tar.gz
apache-flume-1.6.0-bin.tar.gz  hadoop-2.7.2.tar.gz        pig_1470979104717.log
apache-hive-2.1.0-bin          hbase-1.0.3                 pig_1471462105724.log
apache-hive-2.1.0-bin.tar.gz  hbase-1.0.3-bin.tar.gz     pig_1505537096355.log
BIGDATA                      hdfs:                        Public
derby.log                    jdk1.8.0_101                Softwares
Desktop                      jdk-8u101-linux-i586.tar.gz sqoop-1.4.6.bin_hadoop-2.0.4-alpha
Documents                    metastore_db                 sqoop-1.4.6.bin_hadoop-2.0.4-alpha.tar.gz
Downloads                    metastore_db.tmp            Templates
eclipse                      Music                        testfile.txt
employee.java                Pictures                     Videos
hadoop                      pig-0.16.0                  workspace
[acadgild@localhost BIGDATA]$ mv testfile1.txt ~
[acadgild@localhost BIGDATA]$ ls
[acadgild@localhost BIGDATA]$ ls ~
apache-flume-1.6.0-bin          hadoop-2.7.2.tar.gz        pig_1471462105724.log
apache-flume-1.6.0-bin.tar.gz  hbase-1.0.3                 pig_1505537096355.log
apache-hive-2.1.0-bin          hbase-1.0.3-bin.tar.gz     Public
apache-hive-2.1.0-bin.tar.gz  hdfs:                        Softwares
BIGDATA                      jdk1.8.0_101                sqoop-1.4.6.bin_hadoop-2.0.4-alpha
derby.log                    jdk-8u101-linux-i586.tar.gz sqoop-1.4.6.bin_hadoop-2.0.4-alpha.tar.gz
Desktop                      metastore_db                 Templates
Documents                    metastore_db.tmp            testfile1.txt
Downloads                    Music                        testfile.txt
eclipse                      Pictures                     Videos
employee.java                pig-0.16.0                  workspace
hadoop                      pig-0.16.0.tar.gz
hadoop-2.7.2                  pig_1470979104717.log
[acadgild@localhost BIGDATA]$ cat ~/testfile1.txt
hi
i am data
[acadgild@localhost BIGDATA]$
```

## 14.cp:-

cp command is used to copy a file from source directory to destination directory.

```
acadgild@localhost:~/BIGDATA
File Edit View Search Terminal Help
[acadgild@localhost BIGDATA]$ ls
[acadgild@localhost BIGDATA]$ cp ~/testfile.txt .
[acadgild@localhost BIGDATA]$ ls
testfile.txt
[acadgild@localhost BIGDATA]$ cat testfile.txt
hello
[acadgild@localhost BIGDATA]$ ls ~
apache-flume-1.6.0-bin          hadoop-2.7.2.tar.gz          pig_1471462105724.log
apache-flume-1.6.0-bin.tar.gz  hbase-1.0.3                 pig_1505537096355.log
apache-hive-2.1.0-bin          hbase-1.0.3-bin.tar.gz      Public
apache-hive-2.1.0-bin.tar.gz  hdfs:                       Softwares
BIGDATA                       jdk1.8.0_101                sqoop-1.4.6.bin__hadoop-2.0.4-alpha
derby.log                     jdk-8u101-linux-i586.tar.gz sqoop-1.4.6.bin__hadoop-2.0.4-alpha.tar.gz
Desktop                       metastore_db                 Templates
Documents                     metastore_db.tmp             testfile1.txt
Downloads                     Music                        testfile.txt
eclipse                       Pictures                     Videos
employee.java                 pig-0.16.0                  workspace
hadoop                        pig-0.16.0.tar.gz
hadoop-2.7.2                  pig_1470979104717.log
[acadgild@localhost BIGDATA]$ cat ~/testfile.txt
hello
[acadgild@localhost BIGDATA]$
```

## 15.which:-

which command returns the pathnames of the files which would be executed in the current environment.

```
acadgild@localhost:~/BIGDATA
File Edit View Search Terminal Help
[acadgild@localhost BIGDATA]$ which java
/usr/bin/java
[acadgild@localhost BIGDATA]$ which home
/usr/bin/which: no home in (/home/acadgild/apache-hive-2.1.0-bin/bin:/home/acadgild/apache-hive-2.1.0-bin/bin:/usr/lib/qt-3.3/bin:/usr/local/bin:/usr/bin:/bin:/usr/local/sbin:/usr/sbin:/sbin:/home/acadgild/jdk1.8.0_101/bin:/home/acadgild/hadoop-2.7.2/bin:/home/acadgild/pig-0.16.0/bin:/home/HBASE_HOME/bin:/home/acadgild/sqoop-1.4.6.bin__hadoop-2.0.4-alpha/bin:/home/acadgild/apache-flume-1.6.0-bin/bin:/home/acadgild/apache-flume-1.6.0-bin/bin:/home/acadgild/apache-hive-2.1.0-bin/bin:/usr/lib/qt-3.3/bin:/usr/local/bin:/usr/bin:/bin:/usr/local/sbin:/usr/sbin:/home/acadgild/pig-0.16.0/bin:/home/HBASE_HOME/bin:/home/acadgild/sqoop-1.4.6.bin__hadoop-2.0.4-alpha/bin:/home/acadgild/apache-flume-1.6.0-bin/bin:/home/acadgild/apache-flume-1.6.0-bin/bin:/home/acadgild/apache-hive-2.1.0-bin/bin:/usr/lib/qt-3.3/bin:/usr/local/bin:/usr/bin:/bin:/usr/local/sbin:/usr/sbin:/sbin:/home/acadgild/jdk1.8.0_101/bin:/home/acadgild/hadoop-2.7.2/bin:/home/acadgild/pig-0.16.0/bin:/home/HBASE_HOME/bin:/home/acadgild/sqoop-1.4.6.bin__hadoop-2.0.4-alpha/bin:/home/acadgild/apache-flume-1.6.0-bin/bin:/home/acadgild/sqoop-1.4.6.bin__hadoop-2.0.4-alpha/bin:/home/acadgild/pig-0.16.0/bin:/home/acadgild/hbase-1.0.3/bin:/home/acadgild/hadoop-2.7.2/bin:/home/acadgild/hadoop-2.7.2/bin:/home/acadgild/jdk1.8.0_101/bin:/home/acadgild/hadoop-2.7.2/bin:/home/acadgild/pig-0.16.0/bin:/home/HBASE_HOME/bin:/home/acadgild/sqoop-1.4.6.bin__hadoop-2.0.4-alpha/bin:/home/acadgild/apache-flume-1.6.0-bin/bin:/home/acadgild/sqoop-1.4.6.bin__hadoop-2.0.4-alpha/bin:/home/acadgild/pig-0.16.0/bin:/home/acadgild/apache-hive-2.1.0-bin/bin:/home/acadgild/hbase-1.0.3/bin:/home/acadgild/hadoop-2.7.2/bin)
[acadgild@localhost BIGDATA]$
```



Output:-

All commands are executed successfully.

Submitted by  
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