


## ASSIGNMENT 1.2

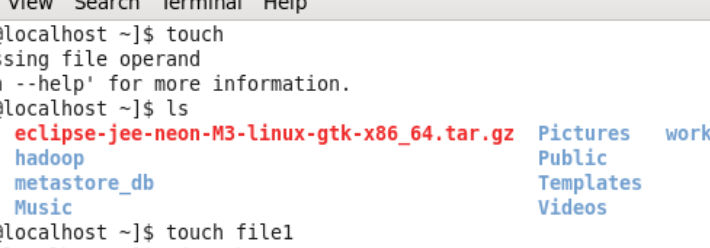
Q. Explain the below linux commands with an example. Share the screenshot of each command with the output:

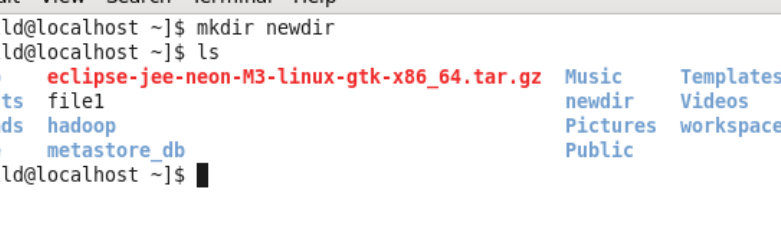
Sol.

- pwd – the pwd command stands for ‘print working directory’. It displays the name of the current working directory.

- 
- The screenshot shows a terminal window titled "acadgild@localhost:~". The window has a menu bar with "File", "Edit", "View", "Search", "Terminal", and "Help". The terminal content shows the user "acadgild@localhost" in the directory "~" executing the "pwd" command, which outputs "/home/acadgild". The prompt "[acadgild@localhost ~]\$ " is followed by a cursor.
- ```
acadgild@localhost:~  
File Edit View Search Terminal Help  
[acadgild@localhost ~]$ pwd  
/home/acadgild  
[acadgild@localhost ~]$
```

- 
- A screenshot of a terminal window titled "acadgild@localhost:~". The window contains the output of the Vim editor starting up. It shows the version number 7.4.629, credits to Bram Moolenaar et al., and a link to bugzilla@redhat.com. It also displays help instructions for various commands like :help iccf, :q, :help, and :help version7. At the bottom right, it shows the file name "0,0-1" and the word "All".
- ```
vim - Vi IMproved  
  
version 7.4.629  
by Bram Moolenaar et al.  
Modified by <bugzilla@redhat.com>  
Vim is open source and freely distributable  
  
Help poor children in Uganda!  
type :help iccf<Enter>      for information  
  
type :q<Enter>              to exit  
type :help<Enter> or <F1>   for on-line help  
type :help version7<Enter> for version info  
  
0,0-1 All
```

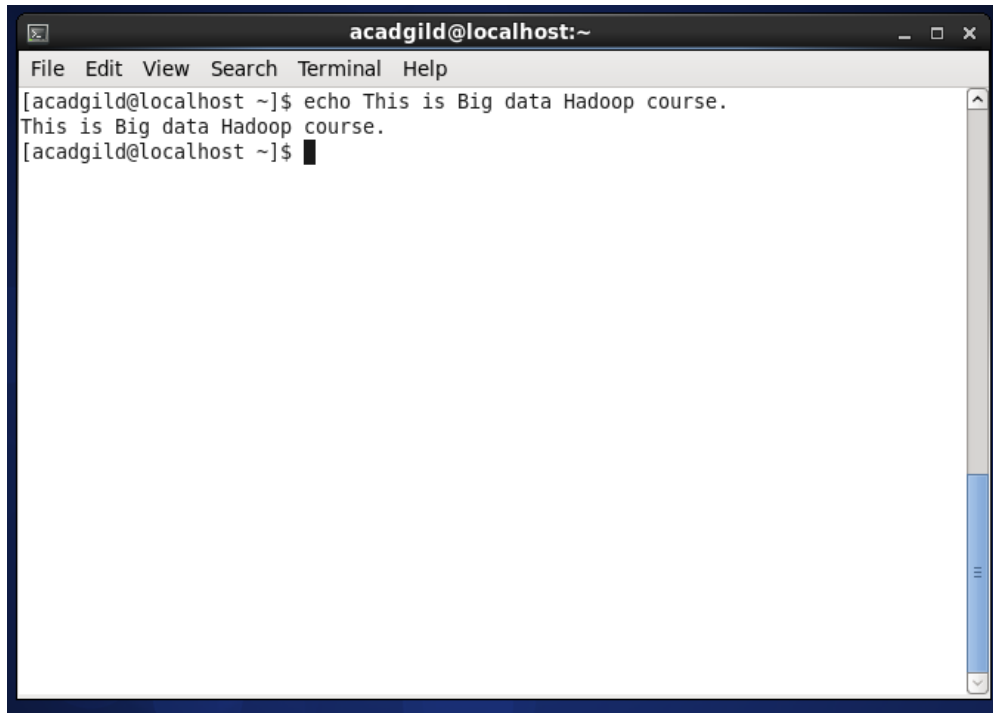
- 
- ```
acadgild@localhost: ~/Desktop
File Edit View Search Terminal Help
[acadgild@localhost ~]$ touch
touch: missing file operand
Try 'touch --help' for more information.
[acadgild@localhost ~]$ ls
Desktop      eclipse-jee-neon-M3-linux-gtk-x86_64.tar.gz  Pictures    workspace
Documents    hadoop                                       Public
Downloads    metastore_db                               Templates
eclipse      Music                                       Videos
[acadgild@localhost ~]$ touch file1
[acadgild@localhost ~]$ cd Desktop/
[acadgild@localhost Desktop]$ ls
gnome-terminal.desktop  new file
[acadgild@localhost Desktop]$
```

- 
- The screenshot shows a terminal window titled "acadgild@localhost:~". The terminal has a menu bar with "File", "Edit", "View", "Search", "Terminal", and "Help". The user has executed the following commands:
- ```
[acadgild@localhost ~]$ mkdir newdir
[acadgild@localhost ~]$ ls
```
- The output of the `ls` command shows a directory listing with the following files and folders:
- |           |   |          |           |
|-----------|---|----------|-----------|
| Desktop   | eclipse-jee-neon-M3-linux-gtk-x86_64.tar.gz | Music    | Templates |
| Documents | file1                                       | newdir   | Videos    |
| Downloads | hadoop                                      | Pictures | workspace |
| eclipse   | metastore_db                                | Public   |           |
- The prompt is now `[acadgild@localhost ~]$`.

- 
- ```
[acadgild@localhost ~]$ mkdir newdir
[acadgild@localhost ~]$ ls
Desktop    eclipse-jee-neon-M3-linux-gtk-x86_64.tar.gz  Music      Templates
Documents  file1   newdir     Videos
Downloads  hadoop                                       Pictures   workspace
eclipse    metastore_db                               Public
[acadgild@localhost ~]$ rm newdir
rm: cannot remove `newdir': Is a directory
[acadgild@localhost ~]$ sudo rm newdir/
[sudo] password for acadgild:
rm: cannot remove `newdir/': Is a directory
[acadgild@localhost ~]$ rm file1
[acadgild@localhost ~]$ ls
Desktop    eclipse-jee-neon-M3-linux-gtk-x86_64.tar.gz  newdir     Videos
Documents  hadoop                                       Pictures   workspace
Downloads  metastore_db                               Public
eclipse    Music                                      Templates
```

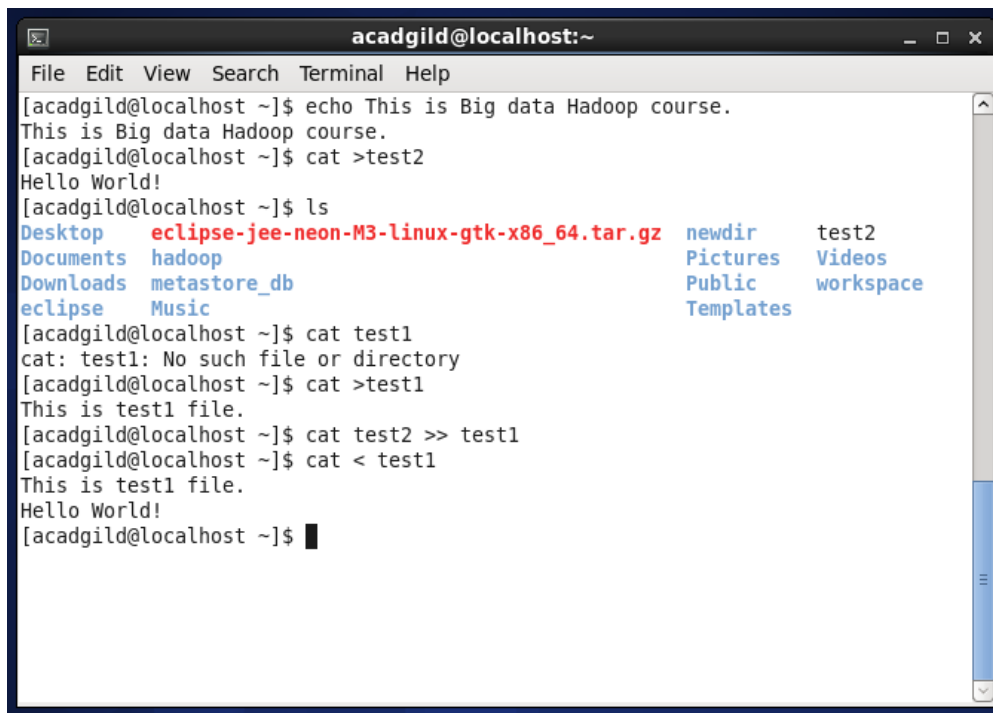
- 
- A screenshot of a Linux terminal window. The title bar reads "acadgild@localhost:~". The menu bar includes "File", "Edit", "View", "Search", "Terminal", and "Help". The terminal shows the following sequence of commands and outputs:
- 
- ```
[acadgild@localhost ~]$ mkdir newdir  
[acadgild@localhost ~]$ ls
```
- 
- The output of the second command is displayed as two columns of files:
- 
- |           |   |          |           |
|-----------|---|----------|-----------|
| Desktop   | eclipse-jee-neon-M3-linux-gtk-x86_64.tar.gz | Music    | Templates |
| Documents | file1                                       | newdir   | Videos    |
| Downloads | hadoop                                      | Pictures | workspace |
| eclipse   | metastore_db                                | Public   |           |
- 
- Following the file listing, the user enters several more commands:
- ```
[acadgild@localhost ~]$ rm newdir  
rm: cannot remove `newdir': Is a directory  
[acadgild@localhost ~]$ sudo rm newdir/  
[sudo] password for acadgild:  
rm: cannot remove `newdir/': Is a directory  
[acadgild@localhost ~]$ rm file1  
[acadgild@localhost ~]$ ls
```
- 
- The final output of the last command is another two-column file listing:
- 
- |           |                                             |           |           |
|-----------|---------------------------------------------|-----------|-----------|
| Desktop   | eclipse-jee-neon-M3-linux-gtk-x86_64.tar.gz | newdir    | Videos    |
| Documents | hadoop                                      | Pictures  | workspace |
| Downloads | metastore_db                                | Public    |           |
| eclipse   | Music                                       | Templates |           |
- 
- The prompt "[acadgild@localhost ~]" followed by a cursor is visible at the bottom.

- echo – The command outputs the strings it is being passed as arguments.



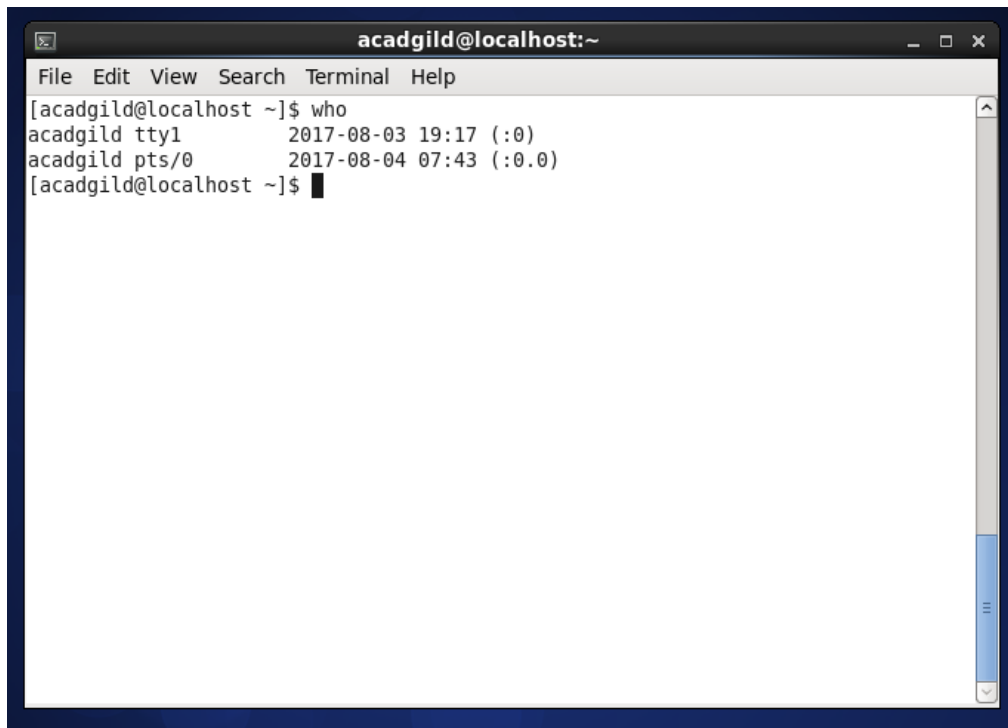
```
acadgild@localhost:~  
File Edit View Search Terminal Help  
[acadgild@localhost ~]$ echo This is Big data Hadoop course.  
This is Big data Hadoop course.  
[acadgild@localhost ~]$
```

- cat – This command stands for 'Concatenate'. It allows us to create single or multiple files, view contain of file, concatenate files and redirect output in terminal or files.



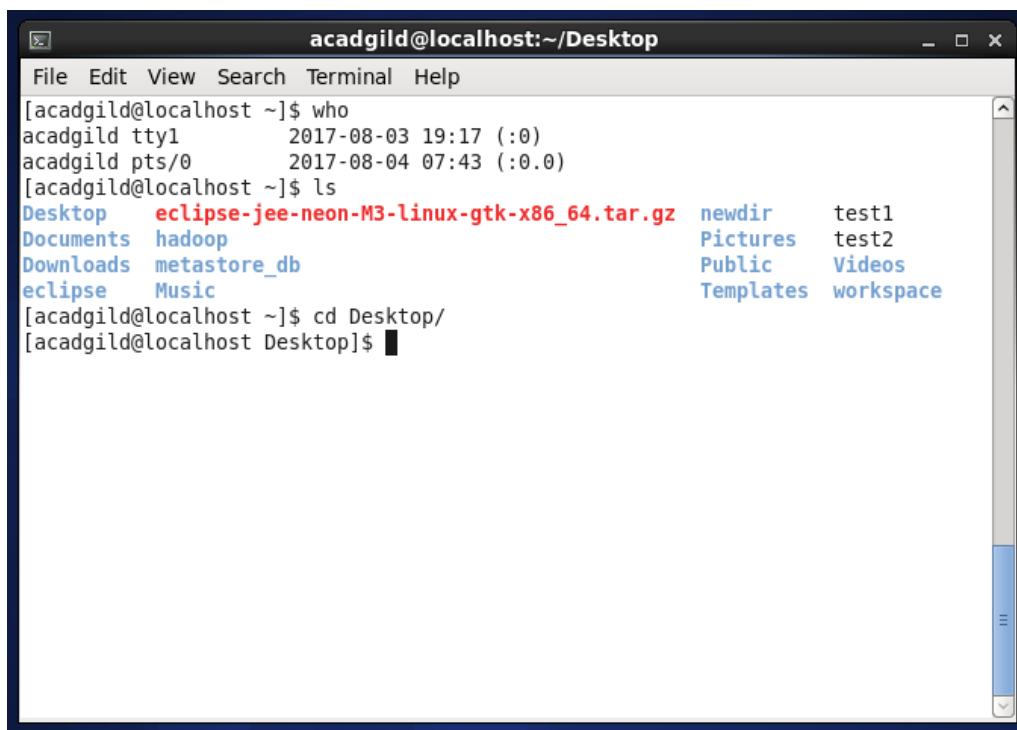
```
acadgild@localhost:~  
File Edit View Search Terminal Help  
[acadgild@localhost ~]$ echo This is Big data Hadoop course.  
This is Big data Hadoop course.  
[acadgild@localhost ~]$ cat >test2  
Hello World!  
[acadgild@localhost ~]$ ls  
Desktop      eclipse-jee-neon-M3-linux-gtk-x86_64.tar.gz  newdir      test2  
Documents    hadoop                                       Pictures    Videos  
Downloads    metastore_db                               Public      workspace  
eclipse      Music                                       Templates  
[acadgild@localhost ~]$ cat test1  
cat: test1: No such file or directory  
[acadgild@localhost ~]$ cat >test1  
This is test1 file.  
[acadgild@localhost ~]$ cat test2 >> test1  
[acadgild@localhost ~]$ cat < test1  
This is test1 file.  
Hello World!  
[acadgild@localhost ~]$
```

- who – This command displays a list of users who are currently logged into the computer.



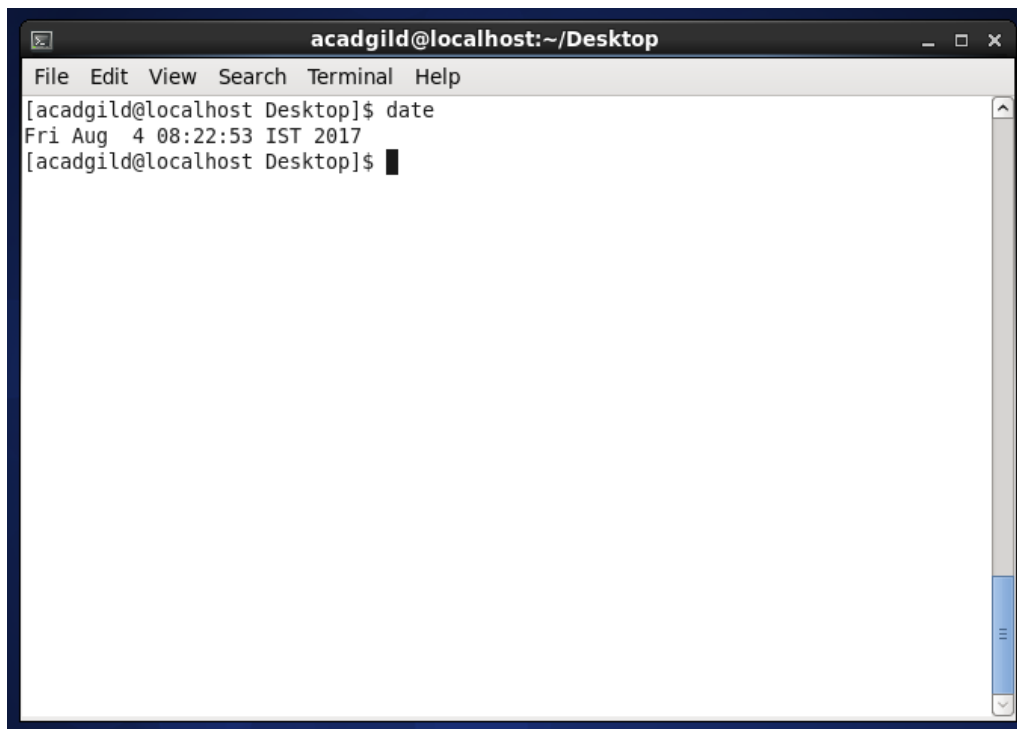
```
acadgild@localhost:~  
File Edit View Search Terminal Help  
[acadgild@localhost ~]$ who  
acadgild tty1      2017-08-03 19:17 (:0)  
acadgild pts/0    2017-08-04 07:43 (:0.0)  
[acadgild@localhost ~]$
```

- cd – This command is used to change the current directory to a desired one.



```
acadgild@localhost:~/Desktop  
File Edit View Search Terminal Help  
[acadgild@localhost ~]$ who  
acadgild tty1      2017-08-03 19:17 (:0)  
acadgild pts/0    2017-08-04 07:43 (:0.0)  
[acadgild@localhost ~]$ ls  
Desktop    eclipse-jee-neon-M3-linux-gtk-x86_64.tar.gz  newdir    test1  
Documents  hadoop   Pictures   test2  
Downloads  metastore_db                                Public     Videos  
eclipse    Music  Templates  workspace  
[acadgild@localhost ~]$ cd Desktop/  
[acadgild@localhost Desktop]$
```

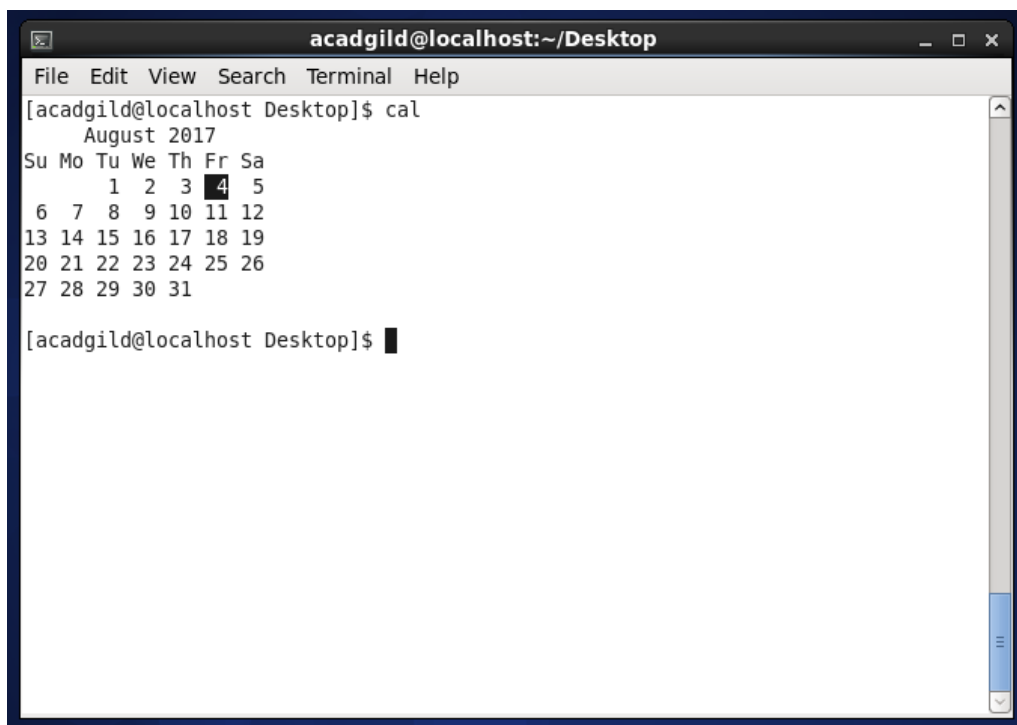
- `date` – This command will output the system date and time.



A terminal window titled "acadgild@localhost:~/Desktop" with a menu bar (File, Edit, View, Search, Terminal, Help). The command `date` has been executed, resulting in the output: `Fri Aug 4 08:22:53 IST 2017`. The prompt `[acadgild@localhost Desktop]$` is visible on the line below.

```
acadgild@localhost:~/Desktop
File Edit View Search Terminal Help
[acadgild@localhost Desktop]$ date
Fri Aug 4 08:22:53 IST 2017
[acadgild@localhost Desktop]$
```

- `cal` – It displays a formatted calendar in the terminal and indicates the current date.

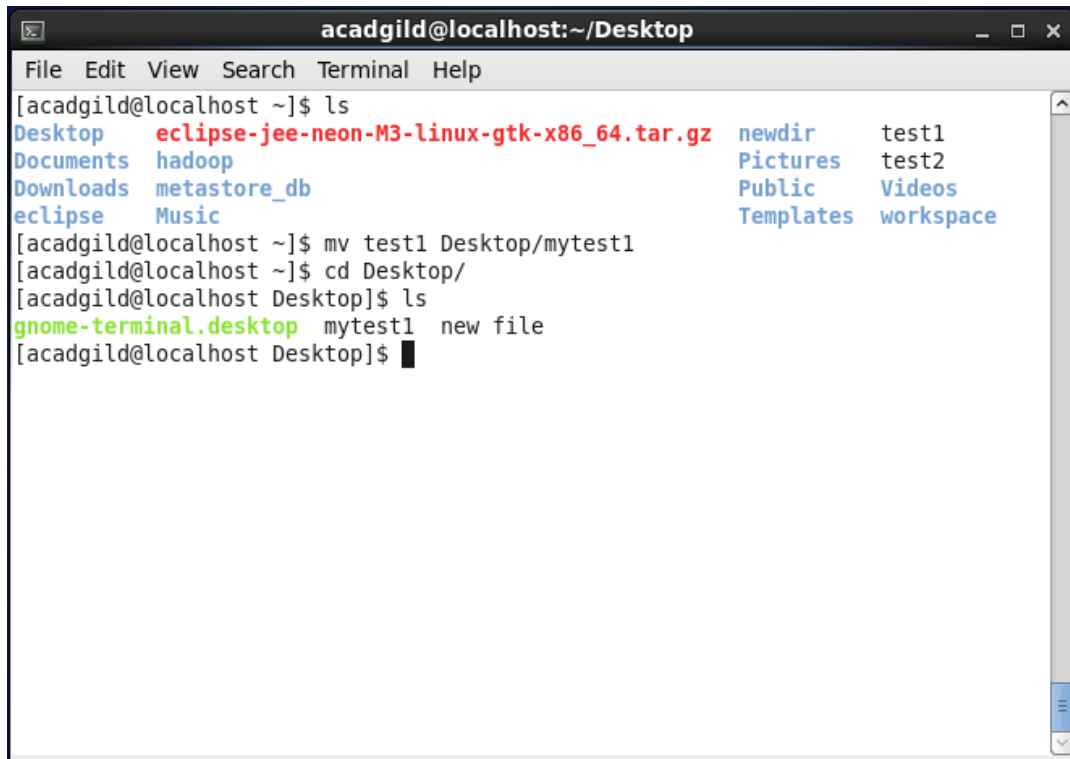


A terminal window titled "acadgild@localhost:~/Desktop" with a menu bar (File, Edit, View, Search, Terminal, Help). The command `cal` has been executed, displaying a calendar for August 2017. The current date, August 4th, is highlighted with a dark background. The prompt `[acadgild@localhost Desktop]$` is visible at the bottom.

```
acadgild@localhost:~/Desktop
File Edit View Search Terminal Help
[acadgild@localhost Desktop]$ cal
      August 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 31

[acadgild@localhost Desktop]$
```

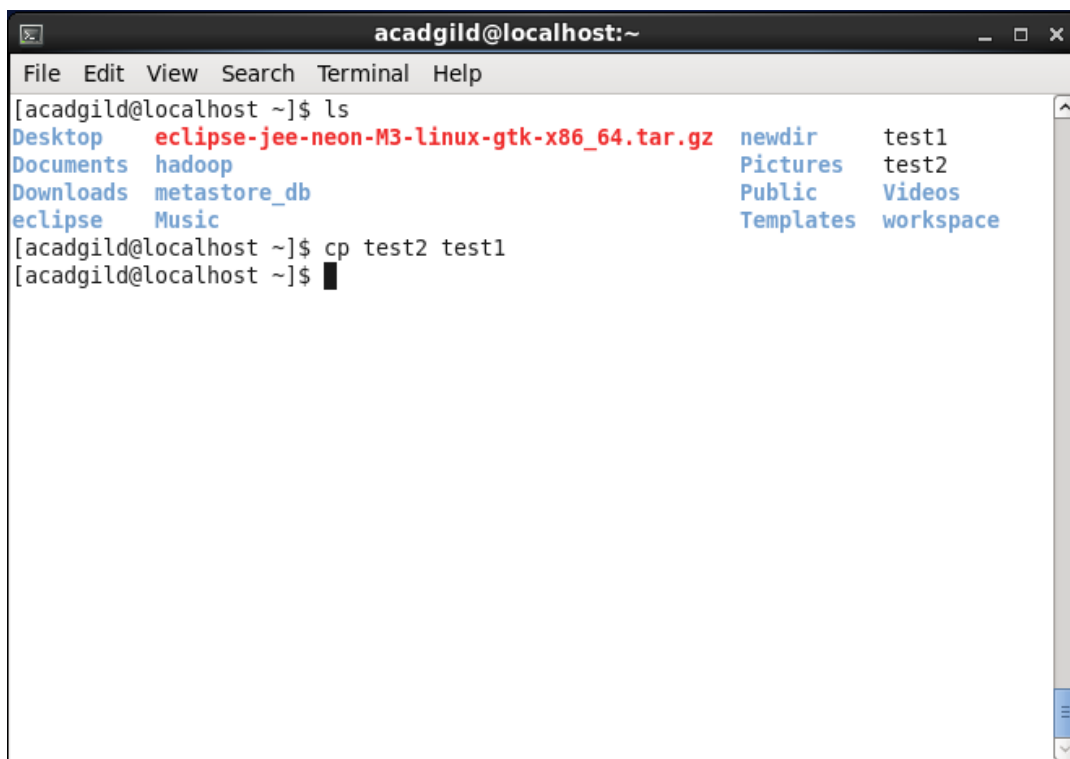
- mv – This command is used to move or rename files(If the file is moved into the same directory as from which it was copied).

A terminal window titled 'acadgild@localhost:~/Desktop' with a menu bar (File, Edit, View, Search, Terminal, Help). The terminal shows the following commands and output:

```
[acadgild@localhost ~]$ ls
Desktop  eclipse-jee-neon-M3-linux-gtk-x86_64.tar.gz  newdir  test1
Documents  hadoop  Pictures  test2
Downloads  metastore_db  Public  Videos
eclipse  Music  Templates  workspace

[acadgild@localhost ~]$ mv test1 Desktop/mytest1
[acadgild@localhost ~]$ cd Desktop/
[acadgild@localhost Desktop]$ ls
gnome-terminal.desktop  mytest1  new file
[acadgild@localhost Desktop]$
```

- cp – This command is used to make copies of files and directories.

A terminal window titled 'acadgild@localhost:~' with a menu bar (File, Edit, View, Search, Terminal, Help). The terminal shows the following commands and output:

```
[acadgild@localhost ~]$ ls
Desktop  eclipse-jee-neon-M3-linux-gtk-x86_64.tar.gz  newdir  test1
Documents  hadoop  Pictures  test2
Downloads  metastore_db  Public  Videos
eclipse  Music  Templates  workspace

[acadgild@localhost ~]$ cp test2 test1
[acadgild@localhost ~]$
```

- `which` – This command returns the pathnames of the files which would be executed in the current environment.



```
acadgild@localhost:~  
File Edit View Search Terminal Help  
[acadgild@localhost ~]$ which firefox  
/usr/bin/firefox  
[acadgild@localhost ~]$
```

A terminal window titled "acadgild@localhost:~" with a menu bar (File, Edit, View, Search, Terminal, Help). The terminal shows the command "which firefox" being executed, resulting in the output "/usr/bin/firefox". The prompt returns to "[acadgild@localhost ~]\$".