



## Operating System

### Lab Report

Name: AsfandYar Khan  
Registration #: CSU-F15-137  
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Submitted To: Mr. Usman Ahmed

The University of Lahore, Islamabad Campus  
Department of Computer Science & Information Technology

# Experiment # 3

## Basic Shell Commands

### Objective

To Learn basic shell commands on Ubuntu Terminal.

### Software Tool

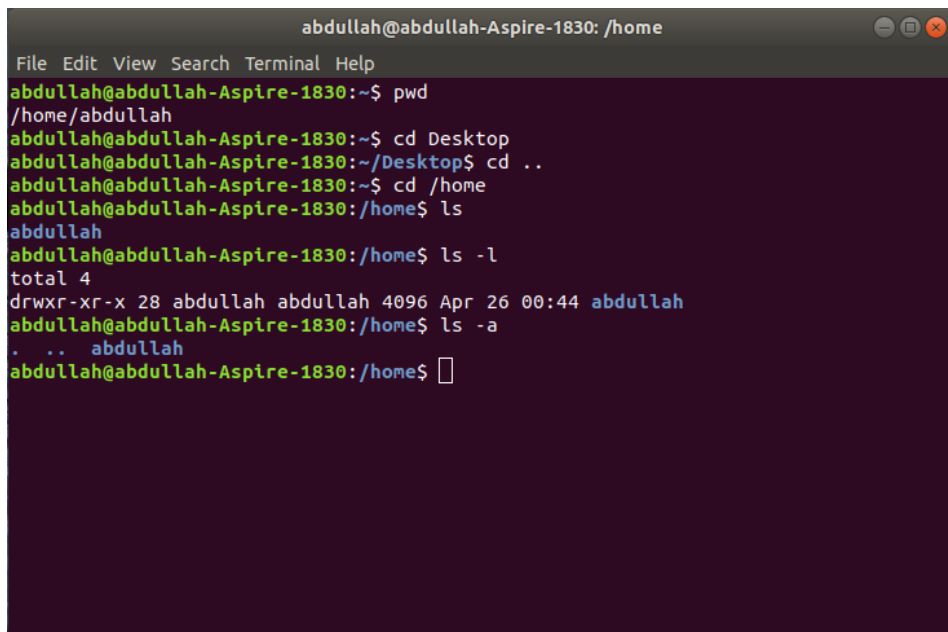
1. Ubuntu Terminal
2. Screenshot

## 1 Theory

This lab-task was given by Instructor to perform basic shell commands of Ubuntu (Linux Operating System) like Creating a new folder, directory, modifying details; Rename and moving folders etc. Screenshots of this lab task is given as follows.

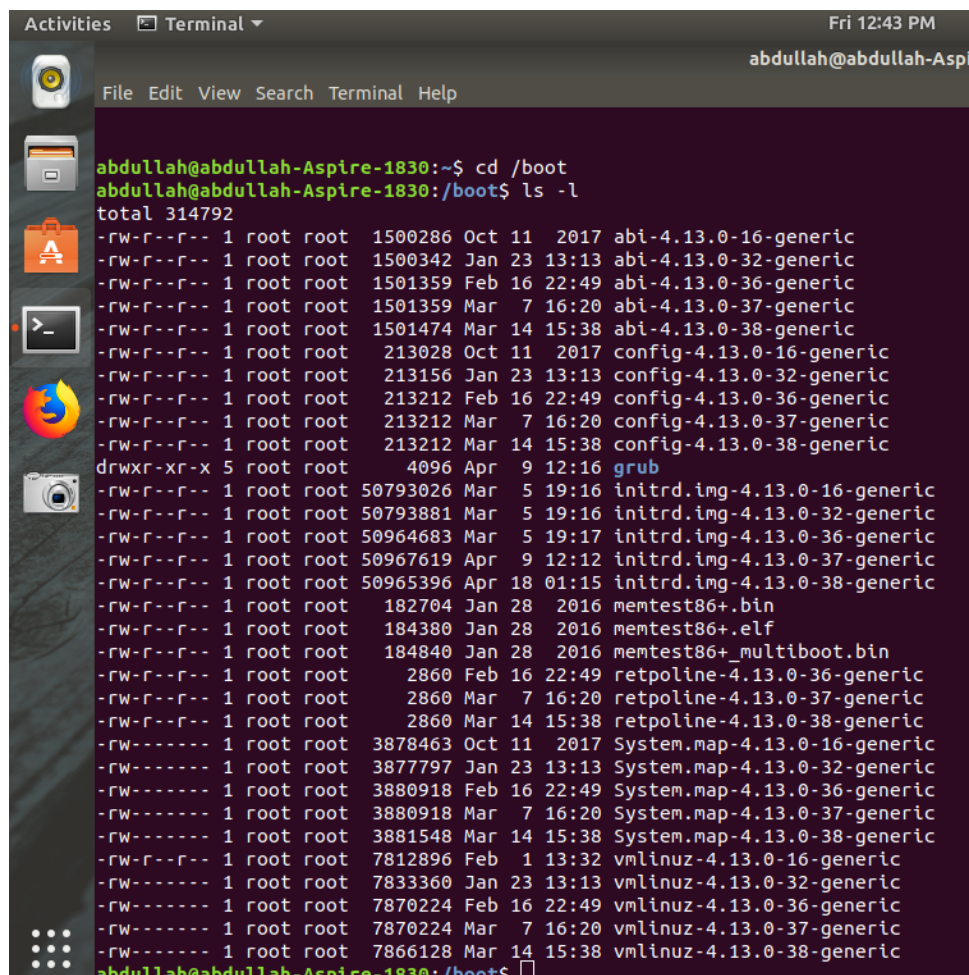
## 2 Task

Screenshot of commands: 1<sup>st</sup> to 7<sup>th</sup>



```
abdullah@abdullah-Aspire-1830: /home
File Edit View Search Terminal Help
abdullah@abdullah-Aspire-1830:~$ pwd
/home/abdullah
abdullah@abdullah-Aspire-1830:~$ cd Desktop
abdullah@abdullah-Aspire-1830:~/Desktop$ cd ..
abdullah@abdullah-Aspire-1830:~$ cd /home
abdullah@abdullah-Aspire-1830:/home$ ls
abdullah
abdullah@abdullah-Aspire-1830:/home$ ls -l
total 4
drwxr-xr-x 28 abdullah abdullah 4096 Apr 26 00:44 abdullah
abdullah@abdullah-Aspire-1830:/home$ ls -a
.  ..  abdullah
abdullah@abdullah-Aspire-1830:/home$
```

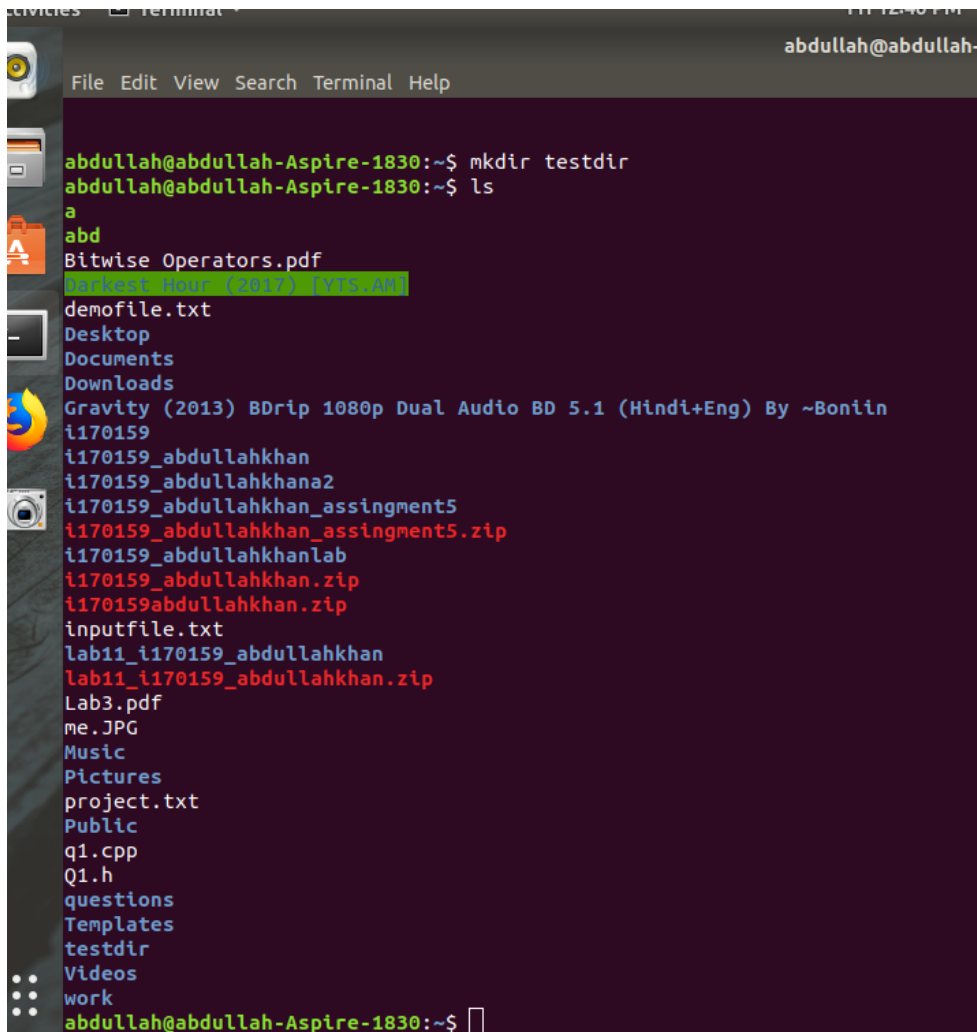
Screenshot of command 8<sup>th</sup>:



The screenshot shows a terminal window titled 'Terminal' with the user 'abdullah@abdullah-Aspire-1830'. The user has navigated to the /boot directory and executed the command 'ls -l'. The output displays a long list of files in the /boot directory, including kernel images (abi-4.13.0-16-generic, abi-4.13.0-32-generic, etc.), configuration files (config-4.13.0-16-generic, etc.), and other boot-related files like grub, initrd.img, memtest86+, and vmlinuz. The files are listed with their permissions, owner, group, size, and modification date.

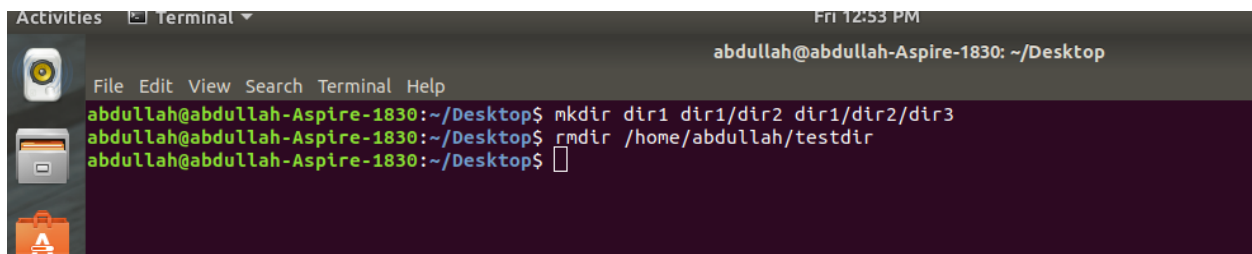
```
abdullah@abdullah-Aspire-1830:~$ cd /boot
abdullah@abdullah-Aspire-1830:/boot$ ls -l
total 314792
-rw-r--r-- 1 root root 1500286 Oct 11 2017 abi-4.13.0-16-generic
-rw-r--r-- 1 root root 1500342 Jan 23 13:13 abi-4.13.0-32-generic
-rw-r--r-- 1 root root 1501359 Feb 16 22:49 abi-4.13.0-36-generic
-rw-r--r-- 1 root root 1501359 Mar 7 16:20 abi-4.13.0-37-generic
-rw-r--r-- 1 root root 1501474 Mar 14 15:38 abi-4.13.0-38-generic
-rw-r--r-- 1 root root 213028 Oct 11 2017 config-4.13.0-16-generic
-rw-r--r-- 1 root root 213156 Jan 23 13:13 config-4.13.0-32-generic
-rw-r--r-- 1 root root 213212 Feb 16 22:49 config-4.13.0-36-generic
-rw-r--r-- 1 root root 213212 Mar 7 16:20 config-4.13.0-37-generic
-rw-r--r-- 1 root root 213212 Mar 14 15:38 config-4.13.0-38-generic
drwxr-xr-x 5 root root 4096 Apr 9 12:16 grub
-rw-r--r-- 1 root root 50793026 Mar 5 19:16 initrd.img-4.13.0-16-generic
-rw-r--r-- 1 root root 50793881 Mar 5 19:16 initrd.img-4.13.0-32-generic
-rw-r--r-- 1 root root 50964683 Mar 5 19:17 initrd.img-4.13.0-36-generic
-rw-r--r-- 1 root root 50967619 Apr 9 12:12 initrd.img-4.13.0-37-generic
-rw-r--r-- 1 root root 50965396 Apr 18 01:15 initrd.img-4.13.0-38-generic
-rw-r--r-- 1 root root 182704 Jan 28 2016 memtest86+.bin
-rw-r--r-- 1 root root 184380 Jan 28 2016 memtest86+.elf
-rw-r--r-- 1 root root 184840 Jan 28 2016 memtest86+_multiboot.bin
-rw-r--r-- 1 root root 2860 Feb 16 22:49 retpoline-4.13.0-36-generic
-rw-r--r-- 1 root root 2860 Mar 7 16:20 retpoline-4.13.0-37-generic
-rw-r--r-- 1 root root 2860 Mar 14 15:38 retpoline-4.13.0-38-generic
-rw-r--r-- 1 root root 3878463 Oct 11 2017 System.map-4.13.0-16-generic
-rw-r--r-- 1 root root 3877797 Jan 23 13:13 System.map-4.13.0-32-generic
-rw-r--r-- 1 root root 3880918 Feb 16 22:49 System.map-4.13.0-36-generic
-rw-r--r-- 1 root root 3880918 Mar 7 16:20 System.map-4.13.0-37-generic
-rw-r--r-- 1 root root 3881548 Mar 14 15:38 System.map-4.13.0-38-generic
-rw-r--r-- 1 root root 7812896 Feb 1 13:32 vmlinuz-4.13.0-16-generic
-rw-r--r-- 1 root root 7833360 Jan 23 13:13 vmlinuz-4.13.0-32-generic
-rw-r--r-- 1 root root 7870224 Feb 16 22:49 vmlinuz-4.13.0-36-generic
-rw-r--r-- 1 root root 7870224 Mar 7 16:20 vmlinuz-4.13.0-37-generic
-rw-r--r-- 1 root root 7866128 Mar 14 15:38 vmlinuz-4.13.0-38-generic
abdullah@abdullah-Aspire-1830:/boot$
```

Screenshot of command 9th:

A terminal window titled 'Terminal' with a menu bar (File, Edit, View, Search, Terminal, Help) and a status bar (Fri 12:40 PM, abdullah@abdullah-Aspire-1830). The prompt is 'abdullah@abdullah-Aspire-1830:~\$'. The user has entered 'mkdir testdir' and 'ls'. The output of 'ls' is a long list of files and directories: 'a', 'abd', 'Bitwise Operators.pdf', 'Darkest Hour (2017) [YTS.AM]', 'demofile.txt', 'Desktop', 'Documents', 'Downloads', 'Gravity (2013) BDrip 1080p Dual Audio BD 5.1 (Hindi+Eng) By ~Bonin', 'i170159', 'i170159\_abdullahkhan', 'i170159\_abdullahkhana2', 'i170159\_abdullahkhan\_assingment5', 'i170159\_abdullahkhan\_assingment5.zip', 'i170159\_abdullahkhanlab', 'i170159\_abdullahkhan.zip', 'i170159abdullahkhan.zip', 'inputfile.txt', 'lab11\_i170159\_abdullahkhan', 'lab11\_i170159\_abdullahkhan.zip', 'Lab3.pdf', 'me.JPG', 'Music', 'Pictures', 'project.txt', 'Public', 'q1.cpp', 'Q1.h', 'questions', 'Templates', 'testdir', 'Videos', 'work'. The prompt is now 'abdullah@abdullah-Aspire-1830:~\$' with a cursor.

```
abdullah@abdullah-Aspire-1830:~$ mkdir testdir
abdullah@abdullah-Aspire-1830:~$ ls
a
abd
Bitwise Operators.pdf
Darkest Hour (2017) [YTS.AM]
demofile.txt
Desktop
Documents
Downloads
Gravity (2013) BDrip 1080p Dual Audio BD 5.1 (Hindi+Eng) By ~Bonin
i170159
i170159_abdullahkhan
i170159_abdullahkhana2
i170159_abdullahkhan_assingment5
i170159_abdullahkhan_assingment5.zip
i170159_abdullahkhanlab
i170159_abdullahkhan.zip
i170159abdullahkhan.zip
inputfile.txt
lab11_i170159_abdullahkhan
lab11_i170159_abdullahkhan.zip
Lab3.pdf
me.JPG
Music
Pictures
project.txt
Public
q1.cpp
Q1.h
questions
Templates
testdir
Videos
work
abdullah@abdullah-Aspire-1830:~$
```

Screenshot of command 10<sup>th</sup>:

A terminal window titled 'Terminal' with a menu bar (File, Edit, View, Search, Terminal, Help) and a status bar (Fri 12:53 PM, abdullah@abdullah-Aspire-1830: ~/Desktop). The prompt is 'abdullah@abdullah-Aspire-1830:~/Desktop\$'. The user has entered 'mkdir dir1 dir1/dir2 dir1/dir2/dir3', 'rmdir /home/abdullah/testdir', and the prompt is now 'abdullah@abdullah-Aspire-1830:~/Desktop\$' with a cursor.

```
abdullah@abdullah-Aspire-1830:~/Desktop$ mkdir dir1 dir1/dir2 dir1/dir2/dir3
abdullah@abdullah-Aspire-1830:~/Desktop$ rmdir /home/abdullah/testdir
abdullah@abdullah-Aspire-1830:~/Desktop$
```

