



**Name : Muhammad Ammanullah**

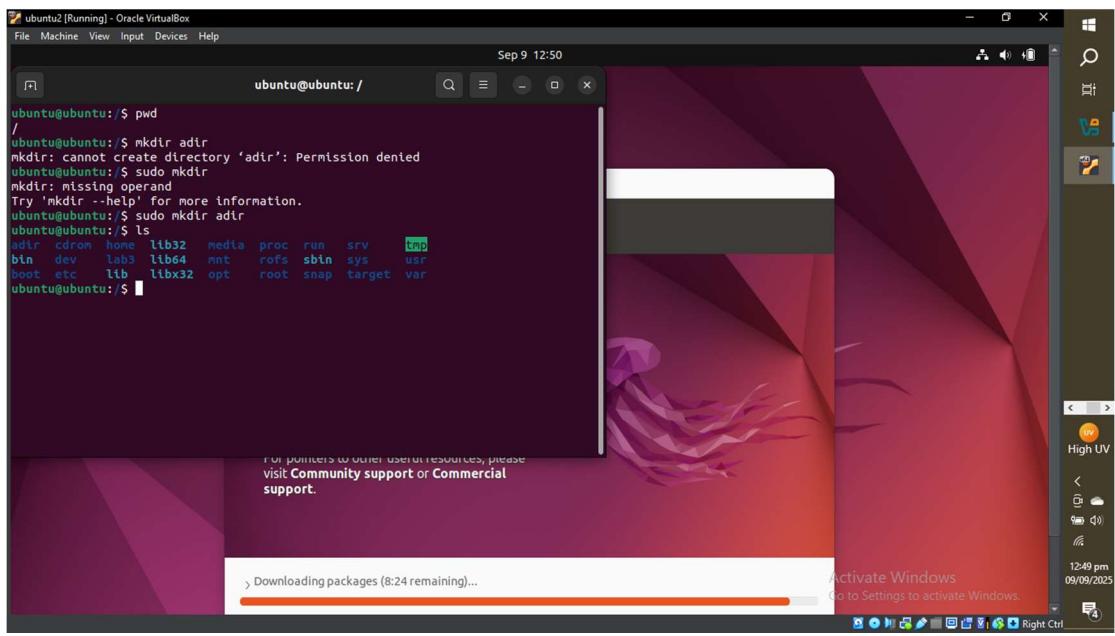
**Sap I`d : 55633**

**Section : BS SE ( 5 – 2 )**

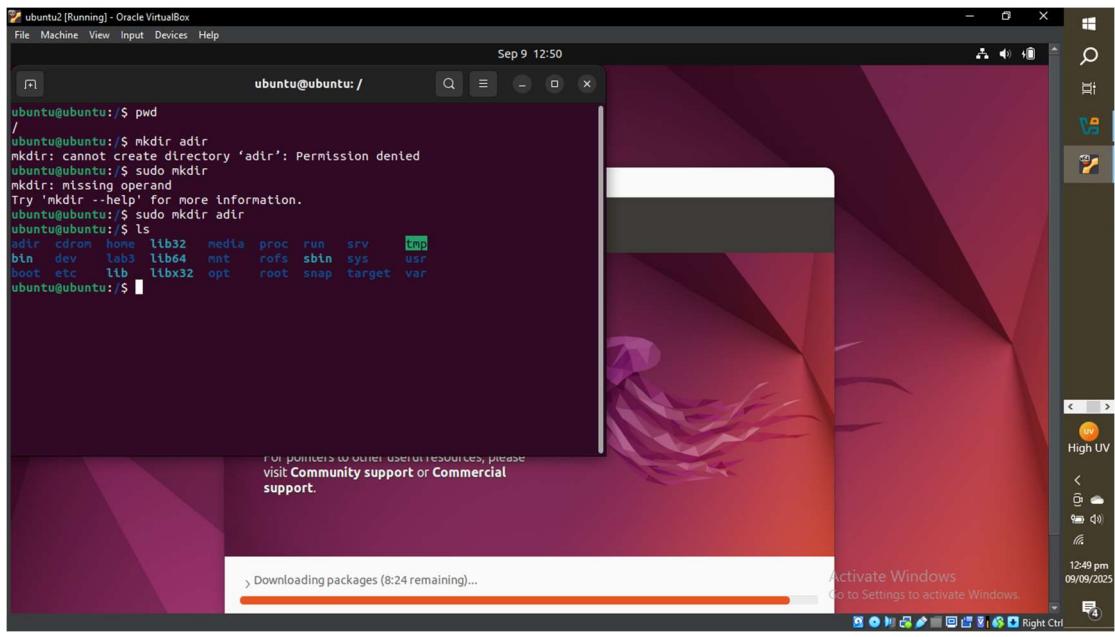
**Course : Operating System Lab**

**Task no 3 :**

## Task 1 :



## Task 2 :



## Task 3 :

A screenshot of a Linux desktop environment, likely Ubuntu, showing a terminal window. The terminal window title is "ubuntu2 [Running] - Oracle VirtualBox". The terminal shows the command "ls" being run, displaying a list of system directories like /tmp, /bin, and /usr. A progress bar at the bottom indicates "Downloading packages (5:24 remaining)...". A watermark for "Community support or Commercial support" is visible in the background.

```
ubuntu@ubuntu:~$ ls
tmp
bin dev lib lib32 lib64 mnt rofs sbin sys usr
boot etc lib libx32 opt root snap target var
ubuntu@ubuntu:~$
```

For pointers to other useful resources, please visit [Community support](#) or [Commercial support](#).

> Downloading packages (5:24 remaining)...

Activate Windows  
Go to Settings to activate Windows

## Task 4 :

A screenshot of a Linux desktop environment, likely Ubuntu, showing a terminal window. The terminal window title is "ubuntu2 [Running] - Oracle VirtualBox". The terminal shows the command "ls" being run, displaying a list of system directories like /tmp, /bin, and /usr. A progress bar at the bottom indicates "Downloading packages (5:24 remaining)...". A watermark for "Community support or Commercial support" is visible in the background.

```
ubuntu@ubuntu:~$ ls
tmp
bin dev lib lib32 lib64 mnt rofs sbin sys usr
boot etc lib libx32 opt root snap target var
ubuntu@ubuntu:~$ cd adir
ubuntu@ubuntu:/adir$
```

For pointers to other useful resources, please visit [Community support](#) or [Commercial](#)

## Task 5 :

A screenshot of a terminal window titled "ubuntu@ubuntu: /adir". The window shows the command history:

```
ubuntu@ubuntu:/$ ls
adir cdrom home lib32 media proc run srv tmp
bin dev lab3 lib64 mnt rofs sbin sys usr
boot etc lib libx32 opt root snap target var
ubuntu@ubuntu:/$ cd adir
ubuntu@ubuntu:/adir$
```

The terminal is running on an Ubuntu desktop environment, indicated by the window title and the desktop background.

## Task 6 :

A screenshot of a terminal window titled "ubuntu@ubuntu: /adir/books/computer". The window shows the command history:

```
mkdir: cannot create directory 'adir': File exists
ubuntu@ubuntu:/$ ls
adir cdrom home lib32 media proc run srv tmp
bin dev lab3 lib64 mnt rofs sbin sys usr
boot etc lib libx32 opt root snap target var
ubuntu@ubuntu:/$ cd adir
mkdir: cannot create directory 'books': Permission denied
ubuntu@ubuntu:/adir$ sudo mkdir books
ubuntu@ubuntu:/adir$ cd books
ubuntu@ubuntu:/adir/books$ sudo mkdir math
ubuntu@ubuntu:/adir/books/math$ sudo mkdir trigonometry
ubuntu@ubuntu:/adir/books/math$ sudo mkdir calculus
ubuntu@ubuntu:/adir/books/math$ cd ..
ubuntu@ubuntu:/adir/books$ sudo mkdir physics
ubuntu@ubuntu:/adir/books$ cd physics
ubuntu@ubuntu:/adir/books/physics$ sudo mkdir quantum
ubuntu@ubuntu:/adir/books/physics$ sudo mkdir classical
ubuntu@ubuntu:/adir/books/physics$ sudo mkdir nuclear
ubuntu@ubuntu:/adir/books/physics$ cd ..
ubuntu@ubuntu:/adir/books$ sudo mkdir computer
ubuntu@ubuntu:/adir/books$ cd computer
ubuntu@ubuntu:/adir/books/computer$ pwd
```

The terminal is running on an Ubuntu desktop environment, indicated by the window title and the desktop background. A progress bar at the bottom indicates "Preparing linux-modules-extra-6.8.0-79-generic (amd64)".