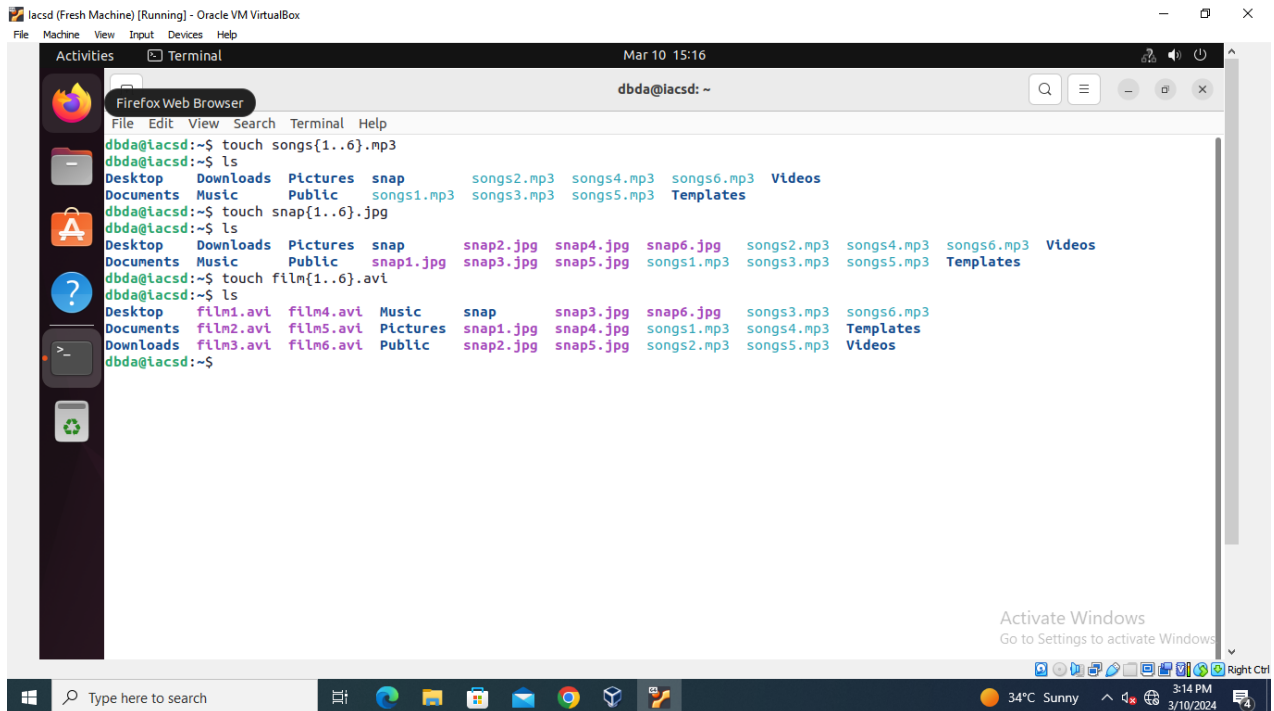


Name Harsh Nipane

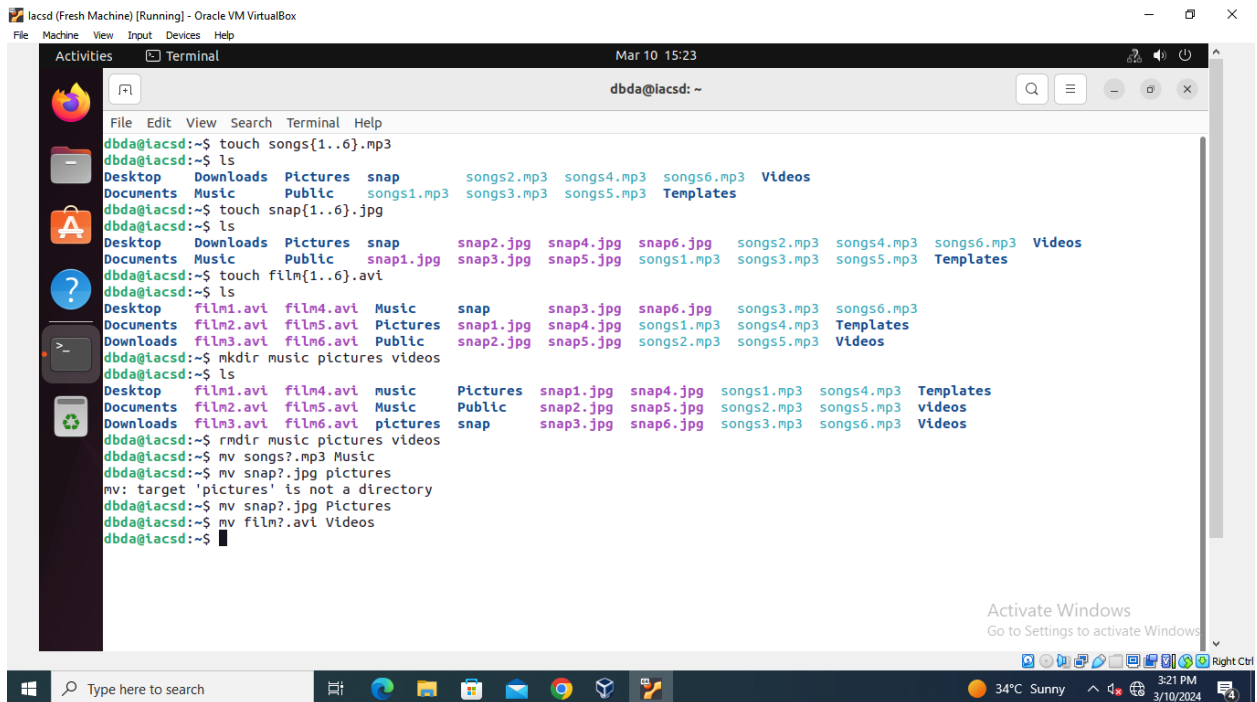
## Question 1



The screenshot shows a terminal window titled "lacs (Fresh Machine) [Running] - Oracle VM VirtualBox". The terminal is running a series of commands to create files and directories. The commands and their outputs are as follows:

```
dbda@lacs:~$ touch songs{1..6}.mp3
dbda@lacs:~$ ls
Desktop  Downloads  Pictures  snap      songs2.mp3  songs4.mp3  songs6.mp3  Videos
Documents Music      Public   songs1.mp3  songs3.mp3  songs5.mp3  Templates
dbda@lacs:~$ touch snap{1..6}.jpg
dbda@lacs:~$ ls
Desktop  Downloads  Pictures  snap      snap2.jpg  snap4.jpg  snap6.jpg  songs2.mp3  songs4.mp3  songs6.mp3  Videos
Documents Music      Public   snap1.jpg  snap3.jpg  snap5.jpg  songs1.mp3  songs3.mp3  songs5.mp3  Templates
dbda@lacs:~$ touch film{1..6}.avi
dbda@lacs:~$ ls
Desktop  film1.avi  film4.avi  Music      snap      snap3.jpg  snap6.jpg  songs3.mp3  songs6.mp3
Documents film2.avi  film5.avi  Pictures   snap1.jpg  snap4.jpg  songs1.mp3  songs4.mp3  Templates
Downloads film3.avi  film6.avi  Public    snap2.jpg  snap5.jpg  songs2.mp3  songs5.mp3  Videos
dbda@lacs:~$
```

## Question 2



The screenshot shows a terminal window titled "lacs (Fresh Machine) [Running] - Oracle VM VirtualBox". The terminal is running a series of commands to create directories and move files. The commands and their outputs are as follows:

```
dbda@lacs:~$ touch songs{1..6}.mp3
dbda@lacs:~$ ls
Desktop  Downloads  Pictures  snap      songs2.mp3  songs4.mp3  songs6.mp3  Videos
Documents Music      Public   songs1.mp3  songs3.mp3  songs5.mp3  Templates
dbda@lacs:~$ touch snap{1..6}.jpg
dbda@lacs:~$ ls
Desktop  Downloads  Pictures  snap      snap2.jpg  snap4.jpg  snap6.jpg  songs2.mp3  songs4.mp3  songs6.mp3  Videos
Documents Music      Public   snap1.jpg  snap3.jpg  snap5.jpg  songs1.mp3  songs3.mp3  songs5.mp3  Templates
dbda@lacs:~$ touch film{1..6}.avi
dbda@lacs:~$ ls
Desktop  film1.avi  film4.avi  Music      snap      snap3.jpg  snap6.jpg  songs3.mp3  songs6.mp3
Documents film2.avi  film5.avi  Pictures   snap1.jpg  snap4.jpg  songs1.mp3  songs4.mp3  Templates
Downloads film3.avi  film6.avi  Public    snap2.jpg  snap5.jpg  songs2.mp3  songs5.mp3  Videos
dbda@lacs:~$ mkdir music pictures videos
dbda@lacs:~$ ls
Desktop  film1.avi  film4.avi  music      Pictures  snap1.jpg  snap4.jpg  songs1.mp3  songs4.mp3  Templates
Documents film2.avi  film5.avi  Music      Public    snap2.jpg  snap5.jpg  songs2.mp3  songs5.mp3  Videos
Downloads film3.avi  film6.avi  pictures  snap      snap3.jpg  snap6.jpg  songs3.mp3  songs6.mp3
dbda@lacs:~$ rmdir music pictures videos
dbda@lacs:~$ mv songs?.mp3 Music
dbda@lacs:~$ mv snap?.jpg pictures
mv: target 'pictures' is not a directory
dbda@lacs:~$ mv snap?.jpg Pictures
dbda@lacs:~$ mv film?.avi Videos
dbda@lacs:~$
```

## Output

```
lcsd (Fresh Machine) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

|-- Desktop
|-- Documents
|-- Downloads
|-- Music
|  |-- songs1.mp3
|  |-- songs2.mp3
|  |-- songs3.mp3
|  |-- songs4.mp3
|  |-- songs5.mp3
|  |-- songs6.mp3
|-- Pictures
|  |-- snap1.jpg
|  |-- snap2.jpg
|  |-- snap3.jpg
|  |-- snap4.jpg
|  |-- snap5.jpg
|  |-- snap6.jpg
|-- Public
|-- Templates
|-- Videos
|  |-- flm1.avi
|  |-- flm2.avi
|  |-- flm3.avi
|  |-- flm4.avi
|  |-- flm5.avi
|  |-- flm6.avi
|-- snap
|-- snapd-desktop-integration [error opening dir]
|-- tree
|  |-- 18
|  |-- common
|  |-- current -> 18

14 directories, 18 files
dbda@lcsd:~$
```

Activate Windows  
Go to Settings to activate Windows.

34°C Sunny 3:21 PM 3/10/2024

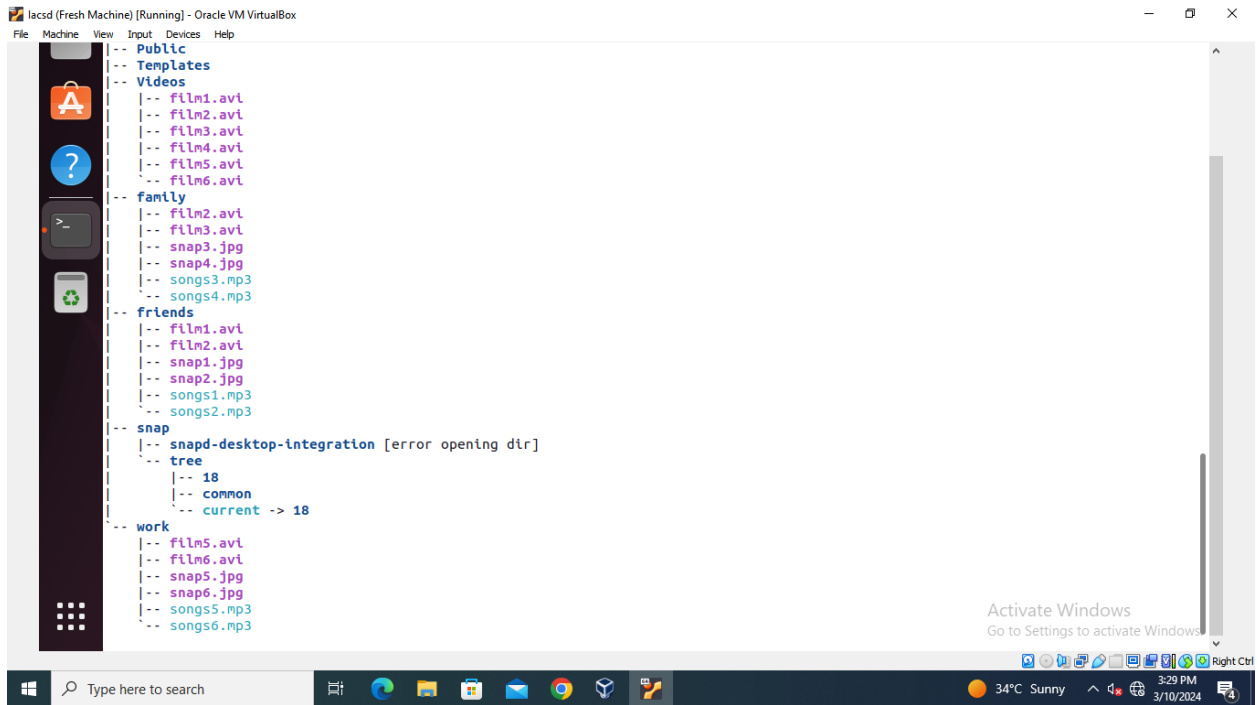
## Question 3 and Question 4

```
lcsd (Fresh Machine) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

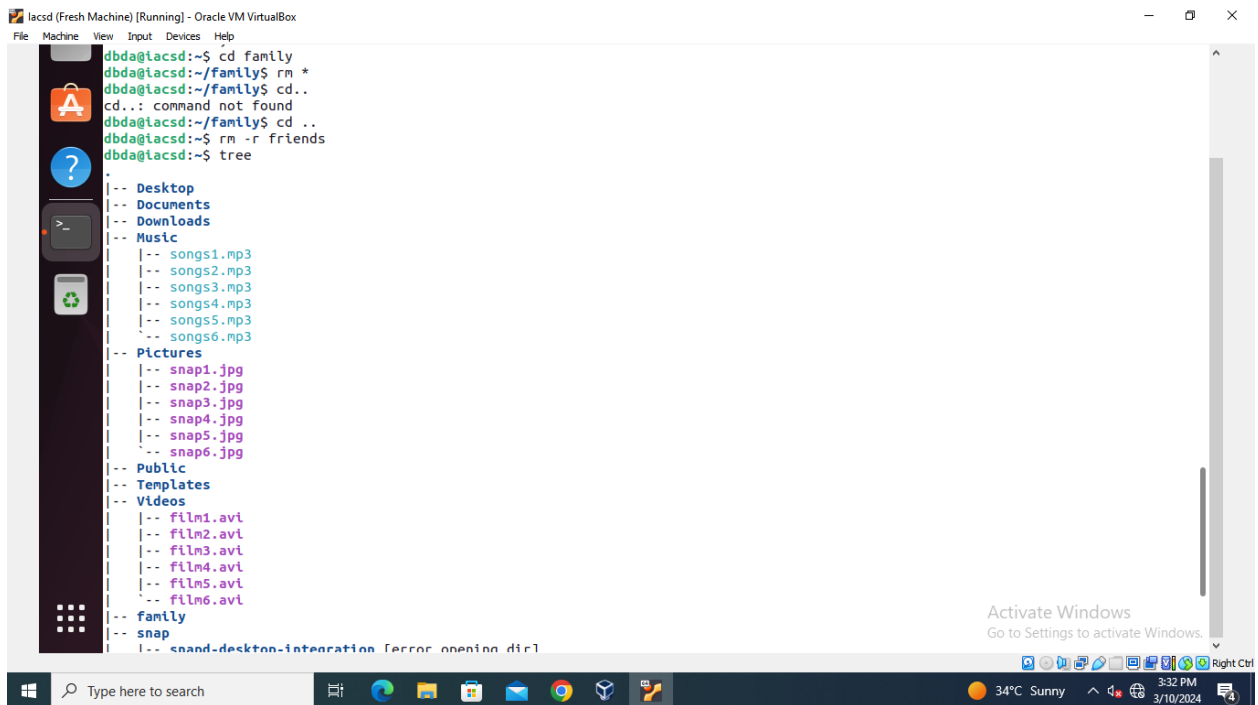
dbda@lcsd:~$ mkdir family friends work
dbda@lcsd:~$ ls
Desktop Documents Downloads family friends Music Pictures Public snap Templates Videos work
dbda@lcsd:~$ cp Music/songs{1..2}.mp3 friends
dbda@lcsd:~$ cp Music/songs{3..4}.mp3 family
dbda@lcsd:~$ cp Music/songs{5..6}.mp3 work
dbda@lcsd:~$ cp Pictures/snap{1..2}.jpg friends
dbda@lcsd:~$ cp Pictures/snap{3..4}.jpg family
dbda@lcsd:~$ cp Pictures/snap{5..6}.jpg work
dbda@lcsd:~$ cp Videos/flm{1..2}.avi friends
dbda@lcsd:~$ cp Videos/flm{2..3}.avi family
dbda@lcsd:~$ cp Videos/flm{5..6}.avi work
dbda@lcsd:~$ tree
.
|-- Desktop
|-- Documents
|-- Downloads
|-- Music
|  |-- songs1.mp3
|  |-- songs2.mp3
|  |-- songs3.mp3
|  |-- songs4.mp3
|  |-- songs5.mp3
|  |-- songs6.mp3
|-- Pictures
|  |-- snap1.jpg
|  |-- snap2.jpg
|  |-- snap3.jpg
|  |-- snap4.jpg
|  |-- snap5.jpg
|  |-- snap6.jpg
|-- Public
|-- Templates
|-- Videos
|  |-- flm1.avi
|  |-- flm2.avi
|  |-- flm3.avi
```

Activate Windows  
Go to Settings to activate Windows.

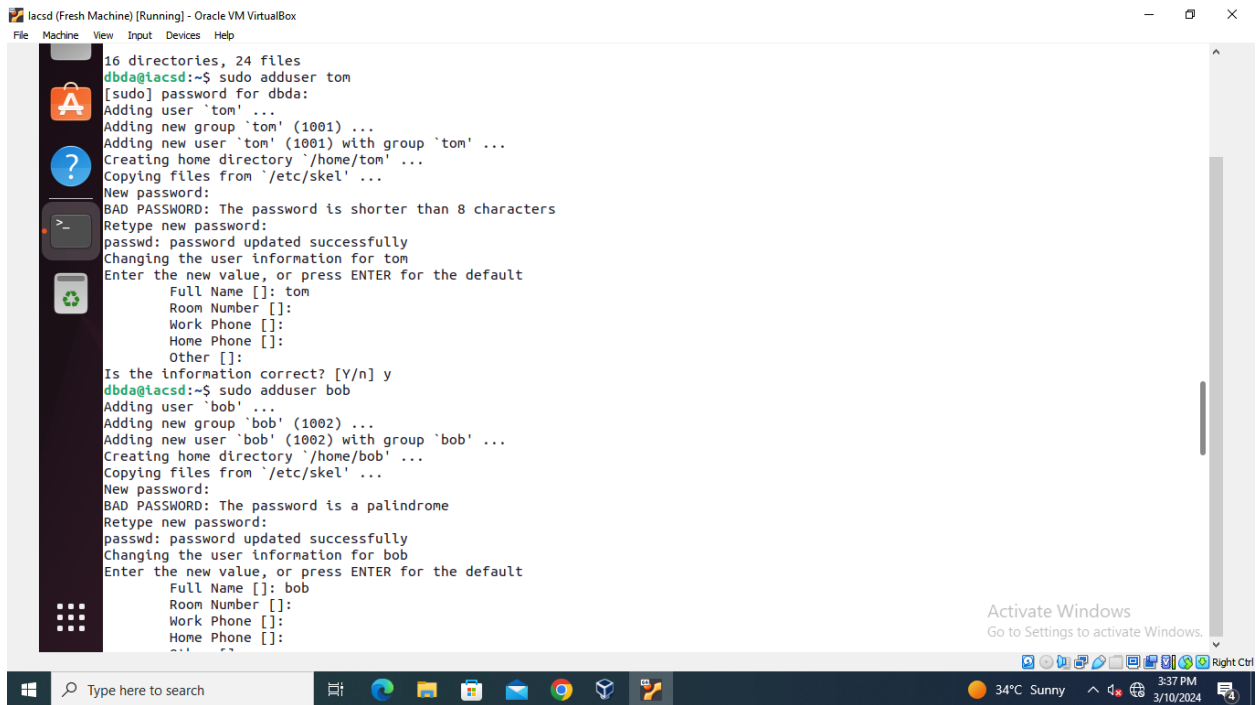
34°C Sunny 3:29 PM 3/10/2024



## Question 6 and Question 7



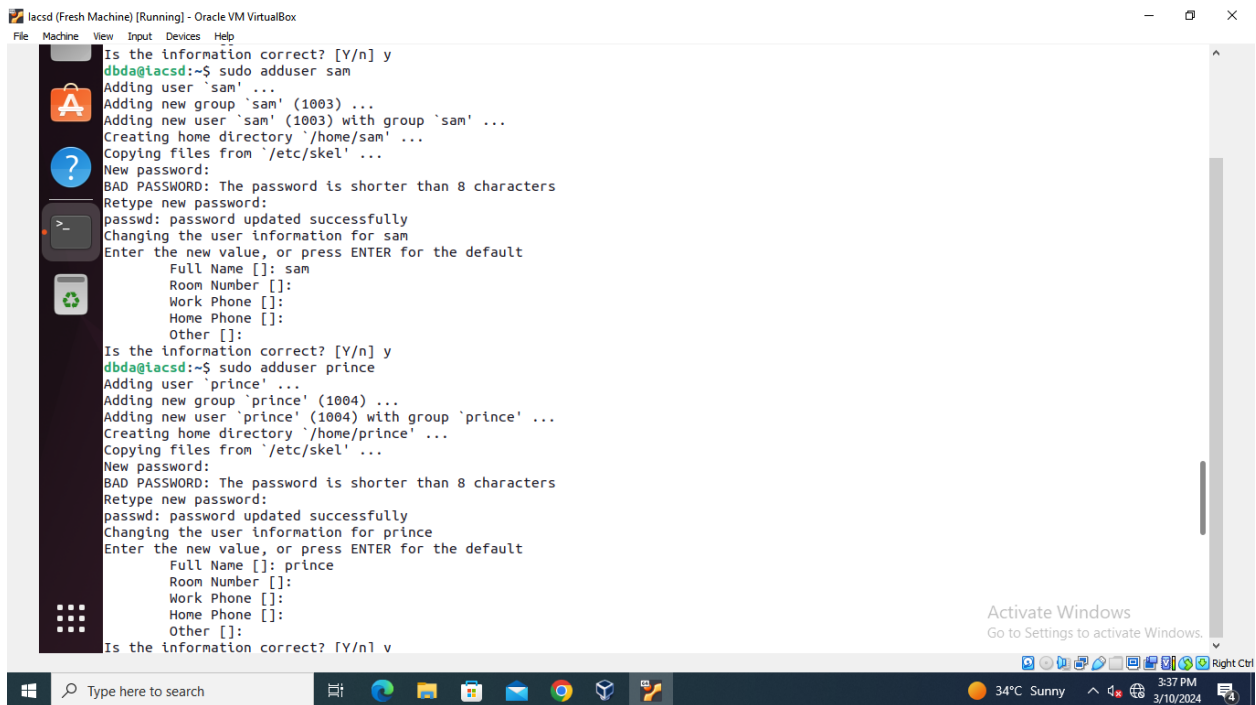
## Question 8



The screenshot shows a terminal window titled "lcsd (Fresh Machine) [Running] - Oracle VM VirtualBox". The terminal output shows the following commands and their results:

```
16 directories, 24 files
dbda@lcsd:~$ sudo adduser tom
[sudo] password for dbda:
Adding user 'tom' ...
Adding new group 'tom' (1001) ...
Adding new user 'tom' (1001) with group 'tom' ...
Creating home directory '/home/tom' ...
Copying files from '/etc/skel' ...
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: password updated successfully
Changing the user information for tom
Enter the new value, or press ENTER for the default
  Full Name []: tom
   Room Number []:
   Work Phone []:
   Home Phone []:
   Other []:
Is the information correct? [Y/n] y
dbda@lcsd:~$ sudo adduser bob
Adding user 'bob' ...
Adding new group 'bob' (1002) ...
Adding new user 'bob' (1002) with group 'bob' ...
Creating home directory '/home/bob' ...
Copying files from '/etc/skel' ...
New password:
BAD PASSWORD: The password is a palindrome
Retype new password:
passwd: password updated successfully
Changing the user information for bob
Enter the new value, or press ENTER for the default
  Full Name []: bob
   Room Number []:
   Work Phone []:
   Home Phone []:
   Other []:
```

The terminal window is running on a Windows 10 desktop environment. The taskbar at the bottom shows the Start button, a search bar, and several application icons. The system tray on the right shows the date and time as 3:37 PM on 3/10/2024, along with weather information (34°C Sunny) and network status.



The screenshot shows a terminal window titled "lcsd (Fresh Machine) [Running] - Oracle VM VirtualBox". The terminal output shows the following commands and their results:

```
Is the information correct? [Y/n] y
dbda@lcsd:~$ sudo adduser sam
Adding user 'sam' ...
Adding new group 'sam' (1003) ...
Adding new user 'sam' (1003) with group 'sam' ...
Creating home directory '/home/sam' ...
Copying files from '/etc/skel' ...
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: password updated successfully
Changing the user information for sam
Enter the new value, or press ENTER for the default
  Full Name []: sam
   Room Number []:
   Work Phone []:
   Home Phone []:
   Other []:
Is the information correct? [Y/n] y
dbda@lcsd:~$ sudo adduser prince
Adding user 'prince' ...
Adding new group 'prince' (1004) ...
Adding new user 'prince' (1004) with group 'prince' ...
Creating home directory '/home/prince' ...
Copying files from '/etc/skel' ...
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: password updated successfully
Changing the user information for prince
Enter the new value, or press ENTER for the default
  Full Name []: prince
   Room Number []:
   Work Phone []:
   Home Phone []:
   Other []:
Is the information correct? [Y/n] v
```

The terminal window is running on a Windows 10 desktop environment. The taskbar at the bottom shows the Start button, a search bar, and several application icons. The system tray on the right shows the date and time as 3:37 PM on 3/10/2024, along with weather information (34°C Sunny) and network status.

## Question 9

```
dbda:x:1000:1000:dbda,,,:/home/dbda:/bin/bash
tom:x:1001:1001:tom,,,:/home/tom:/bin/bash
bob:x:1002:1002:bob,,,:/home/bob:/bin/bash
sam:x:1003:1003:sam,,,:/home/sam:/bin/bash
prince:x:1004:1004:prince,,,:/home/prince:/bin/bash
dbda@iacsd:~$ sudo addgroup dac dbda ditiss
addgroup: Only one or two names allowed.
dbda@iacsd:~$ sudo addgroup dac
Adding group 'dac' (GID 1005) ...
Done.
dbda@iacsd:~$ sudo addgroup dbda
addgroup: The group 'dbda' already exists.
dbda@iacsd:~$ sudo addgroup ditiss
Adding group 'ditiss' (GID 1006) ...
Done.
```

## Question 10

```
root@iacsd:/home/dbda# usermod -g dac tom
root@iacsd:/home/dbda# usermod -g dbda bob
root@iacsd:/home/dbda# usermod -g ditiss sam
root@iacsd:/home/dbda# cat /etc/passwd
dbda:x:1000:1000:dbda,,,:/home/dbda:/bin/bash
tom:x:1001:1005:tom,,,:/home/tom:/bin/bash
bob:x:1002:1000:bob,,,:/home/bob:/bin/bash
sam:x:1003:1006:sam,,,:/home/sam:/bin/bash
prince:x:1004:1004:prince,,,:/home/prince:/bin/bash
```

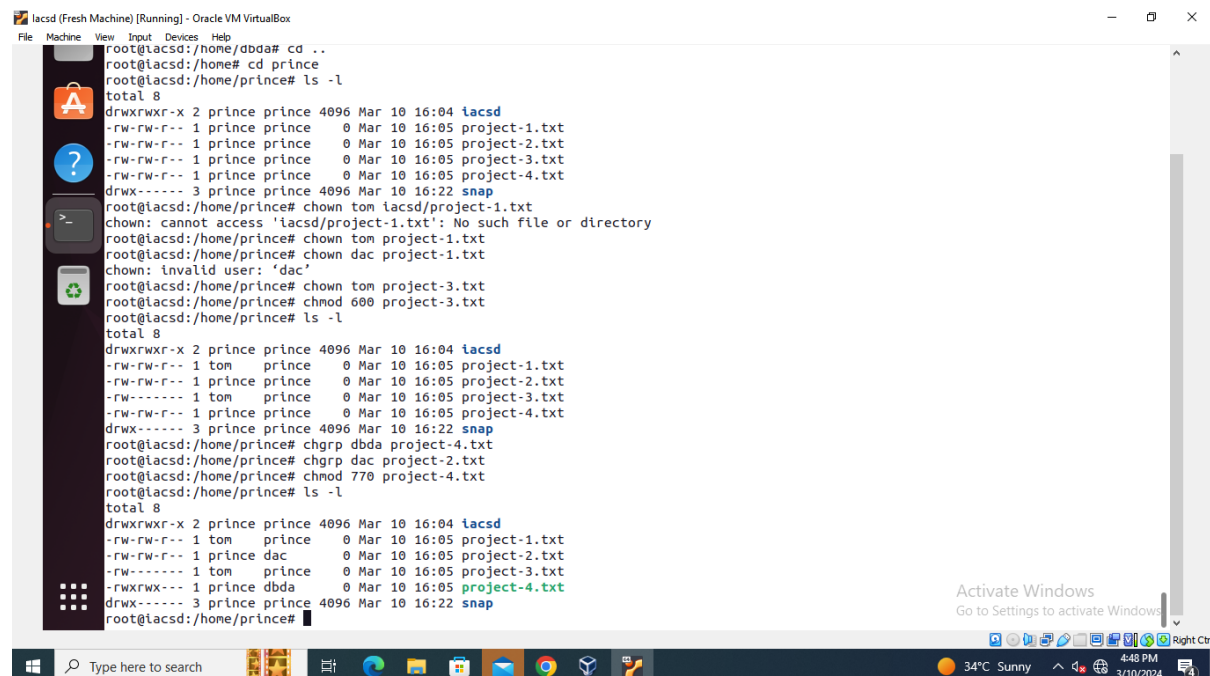
Activate Windows

## Question 11

```
root@iacsd:/home/dbda# su prince
prince@iacsd:/home/dbda$ prince
prince: command not found
prince@iacsd:/home/dbda$ cd tmp
bash: cd: tmp: Permission denied
prince@iacsd:/home/dbda$ ls
ls: cannot open directory '.': Permission denied
prince@iacsd:/home/dbda$ ls -l
ls: cannot open directory '.': Permission denied
prince@iacsd:/home/dbda$ mkdir iacsd
mkdir: cannot create directory 'iacsd': Permission denied
prince@iacsd:/home/dbda$ cd
prince@iacsd:~$ mkdir iacsd
prince@iacsd:~$ touch project-{1..4}.txt
prince@iacsd:~$
```

Activate Windows  
Go to Settings to activate Windows.

## Question 12



```
File Machine View Input Devices Help
root@iacsd:/home/dbda# cd ..
root@iacsd:/home# cd prince
root@iacsd:/home/prince# ls -l
total 8
drwxrwxr-x 2 prince prince 4096 Mar 10 16:04 iacsd
-rw-rw-r-- 1 prince prince 0 Mar 10 16:05 project-1.txt
-rw-rw-r-- 1 prince prince 0 Mar 10 16:05 project-2.txt
-rw-rw-r-- 1 prince prince 0 Mar 10 16:05 project-3.txt
-rw-rw-r-- 1 prince prince 0 Mar 10 16:05 project-4.txt
drwx----- 3 prince prince 4096 Mar 10 16:22 snap
root@iacsd:/home/prince# chown tom iacsd/project-1.txt
chown: cannot access 'iacsd/project-1.txt': No such file or directory
root@iacsd:/home/prince# chown tom project-1.txt
root@iacsd:/home/prince# chown dac project-1.txt
chown: invalid user: 'dac'
root@iacsd:/home/prince# chown tom project-3.txt
root@iacsd:/home/prince# chmod 600 project-3.txt
root@iacsd:/home/prince# ls -l
total 8
drwxrwxr-x 2 prince prince 4096 Mar 10 16:04 iacsd
-rw-rw-r-- 1 tom prince 0 Mar 10 16:05 project-1.txt
-rw-rw-r-- 1 prince prince 0 Mar 10 16:05 project-2.txt
-rw----- 1 tom prince 0 Mar 10 16:05 project-3.txt
-rw-rw-r-- 1 prince prince 0 Mar 10 16:05 project-4.txt
drwx----- 3 prince prince 4096 Mar 10 16:22 snap
root@iacsd:/home/prince# chgrp dbda project-4.txt
root@iacsd:/home/prince# chgrp dac project-2.txt
root@iacsd:/home/prince# chmod 770 project-4.txt
root@iacsd:/home/prince# ls -l
total 8
drwxrwxr-x 2 prince prince 4096 Mar 10 16:04 iacsd
-rw-rw-r-- 1 tom prince 0 Mar 10 16:05 project-1.txt
-rw-rw-r-- 1 prince dac 0 Mar 10 16:05 project-2.txt
-rw----- 1 tom prince 0 Mar 10 16:05 project-3.txt
-rwxrwx--- 1 prince dbda 0 Mar 10 16:05 project-4.txt
drwx----- 3 prince prince 4096 Mar 10 16:22 snap
root@iacsd:/home/prince#
```

