

PRAKTIKUM SISTEM OPERASI

MODUL 7



Nama : NICKY JULYATRIKA SARI

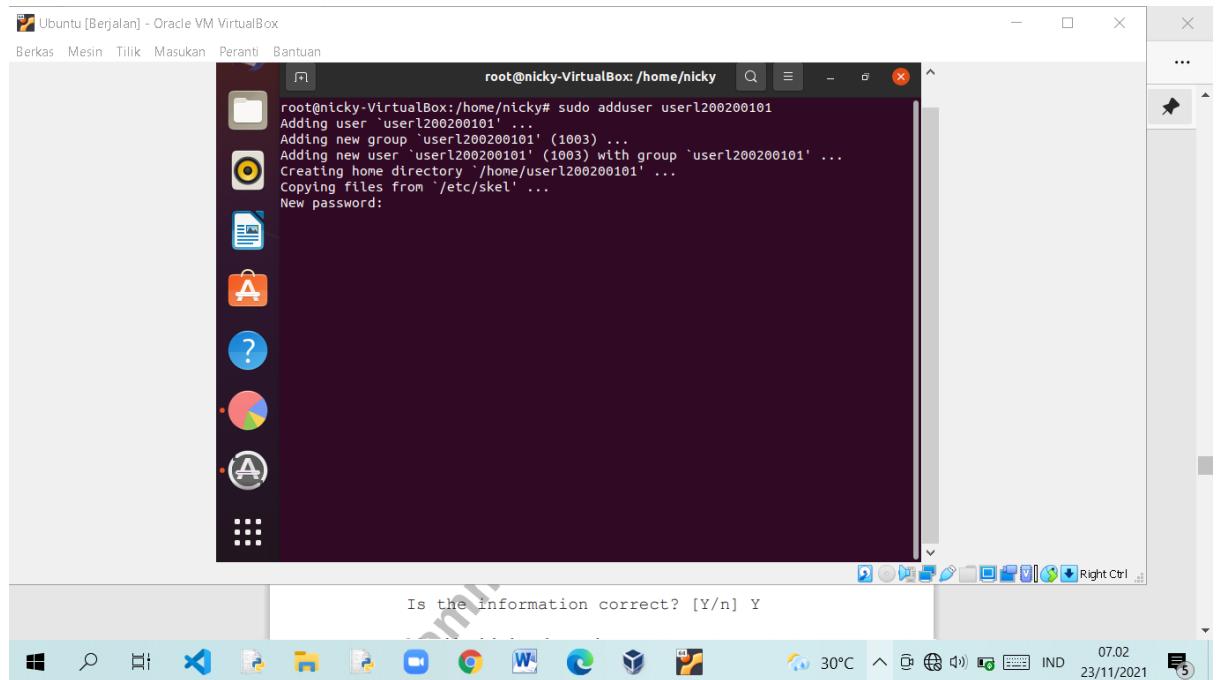
NIM : L200200101

PROGRAM STUDI
INFORMATIKA
FAKULTAS KOMUNIKASI DAN INFORMATIKA
UNIVERSITAS MUHAMMADIYAH SURAKARTA
TAHUN 2021/2022

➤ Praktikum 1

Kerjakan perintah berikut :

1. Buat user baru: # useradd user<nim anda> (L200200101)

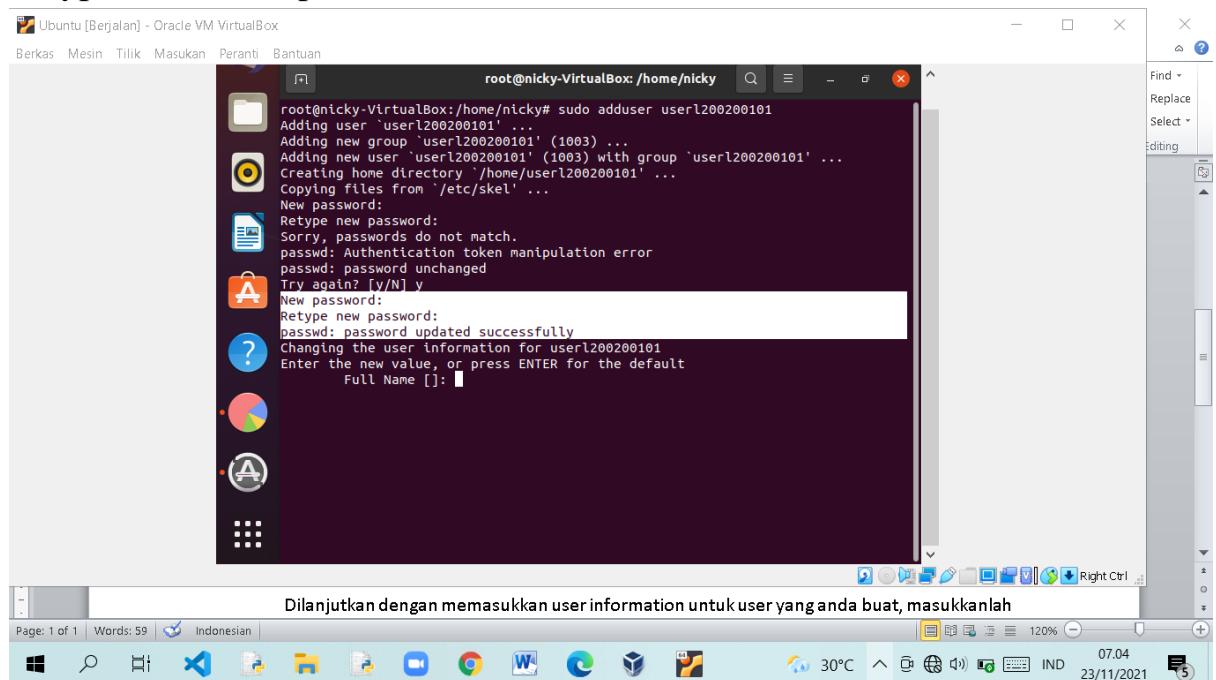


The screenshot shows a terminal window titled "Ubuntu [Berjalan] - Oracle VM VirtualBox". The command "root@nicky-VirtualBox:/home/nicky# sudo adduser userl200200101" is being executed. The output shows the creation of a new user "userl200200101" and its addition to the group "userl200200101". The terminal prompt "New password:" is visible, indicating the user is about to enter their password.

2. Masukkan pasword yang diminta sebanyak dua kali:

Enter new UNIX password:

Retype new UNIX password:



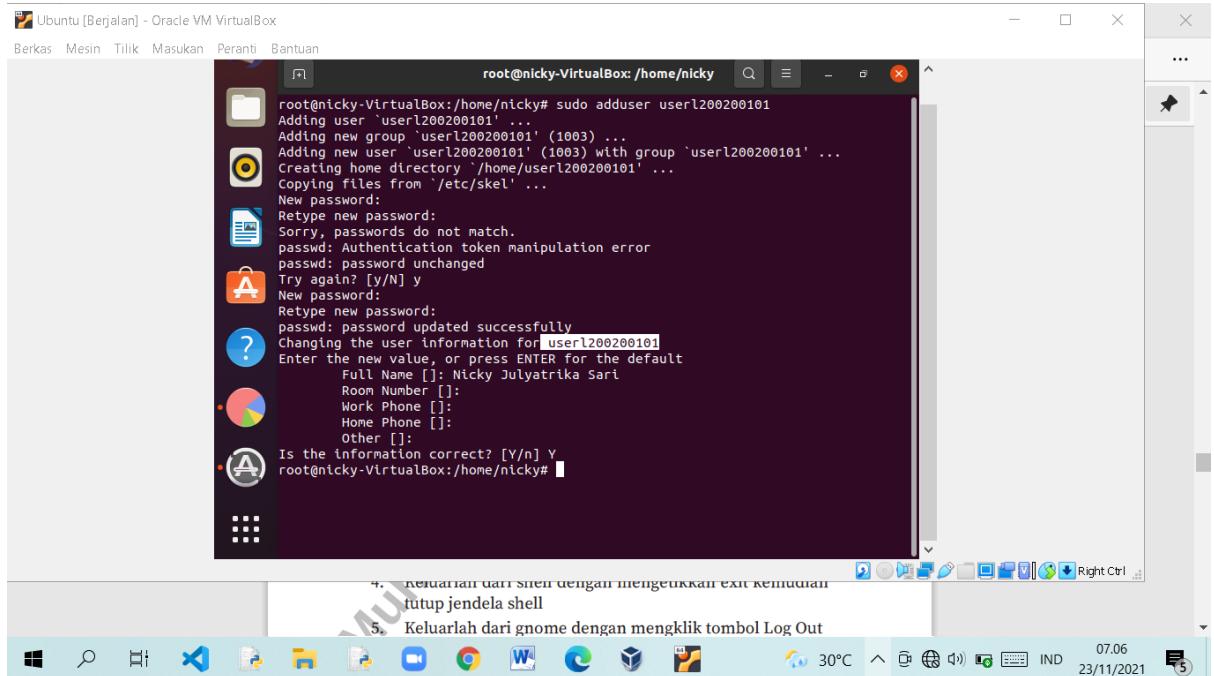
The screenshot shows the same terminal window as the previous one. After entering the password twice, the terminal displays an error message: "Sorry, passwords do not match." It then shows "passwd: Authentication token manipulation error" and "passwd: password unchanged". The user is prompted to "Try again? [y/N] y". The terminal then asks for a new password, which is successfully updated. Finally, it prompts the user to "Enter the new value, or press ENTER for the default" and "Full Name []". A status bar at the bottom of the screen says "Dilanjutkan dengan memasukkan user information untuk user yang anda buat, masukkanlah".

3. Jika sudah berhasil akan muncul pesan passwd:

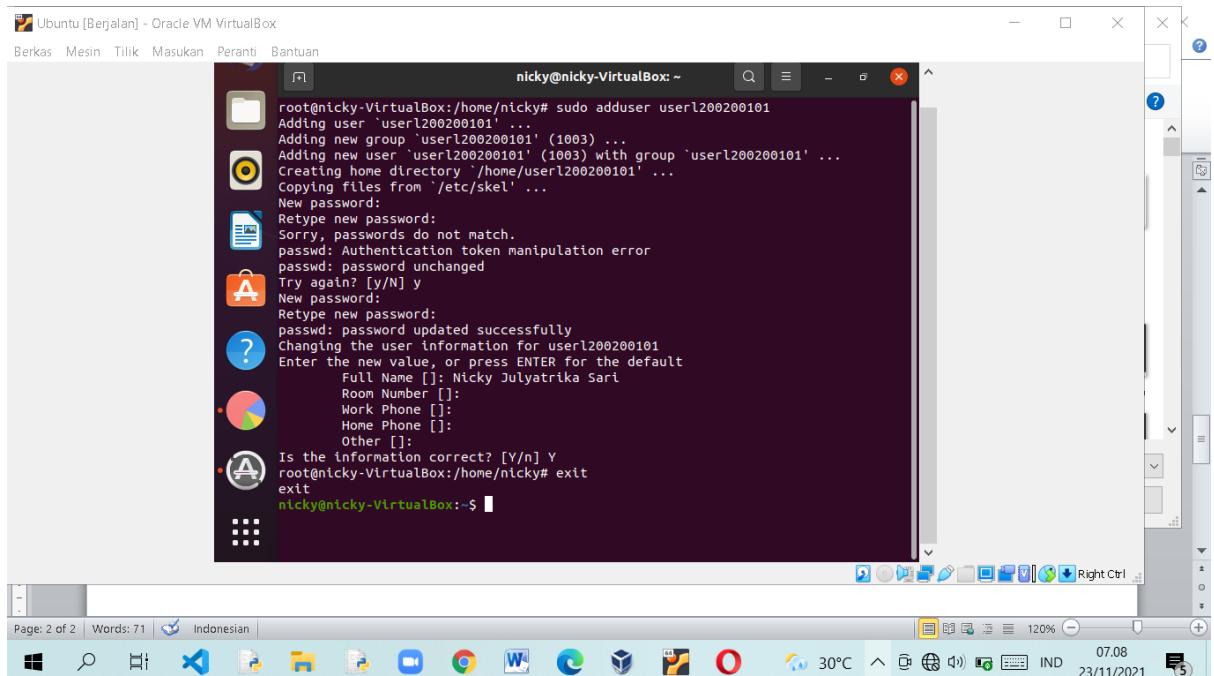
password updated successfully

Dilanjutkan dengan memasukkan user information untuk user yang anda buat, masukkanlah data-data yang diminta.

Masukkanlah data-data anda

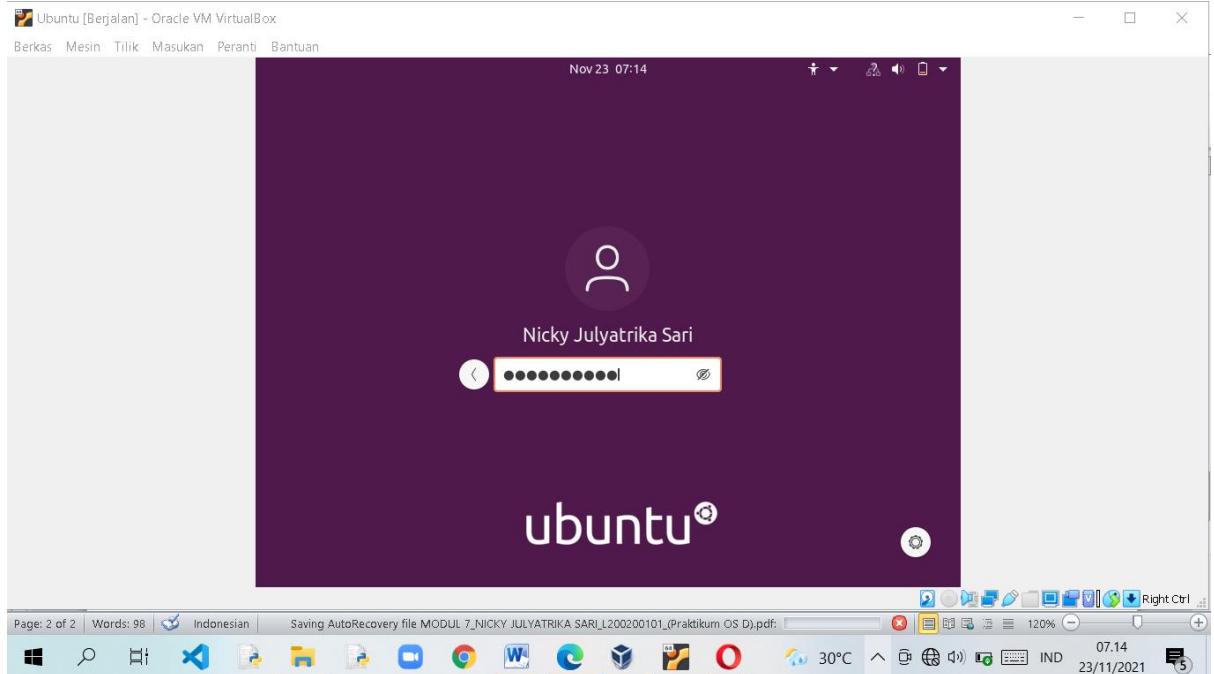


4. Keluarlah dari shell dengan mengetikkan exit kemudian tutup jendela shell



5. Keluarlah dari gnome dengan mengklik tombol Log Out

- Setelah masuk ke jendela login, cobalah untuk masuk menggunakan user dan pasword yang baru saja anda buat.

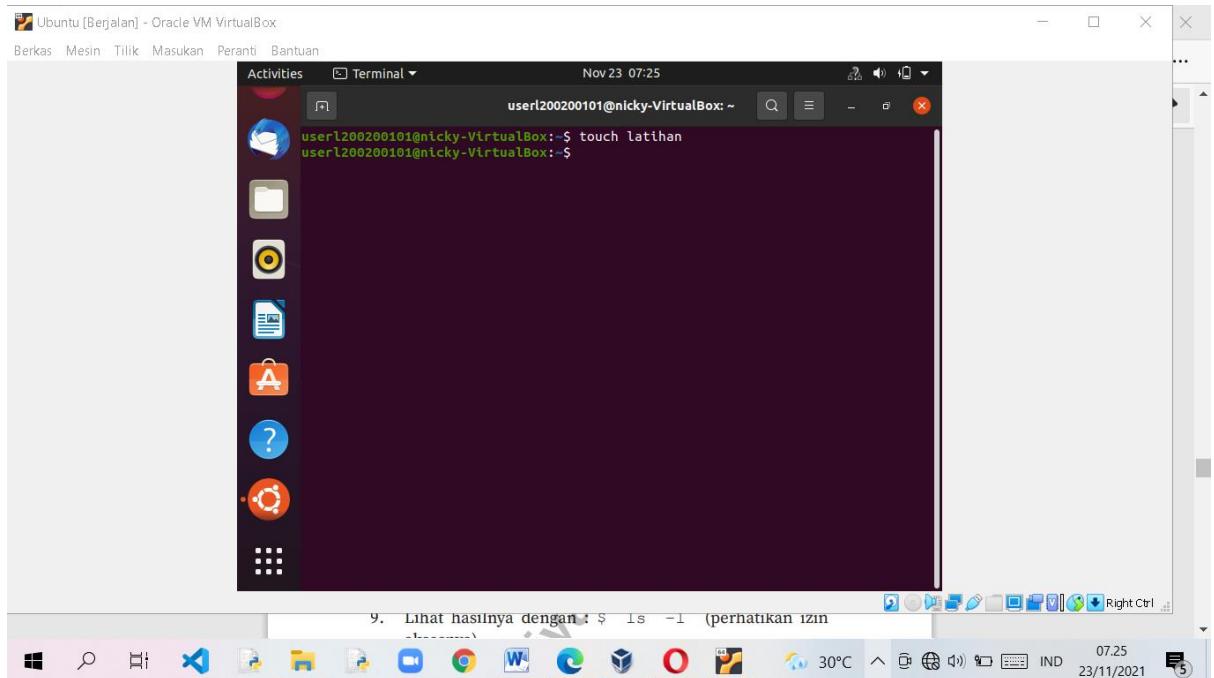


Setelah berhasil login, lanjutkan dengan langkah praktikum selanjutnya. Apa bila belum berhasil, anda harus mengulangi langkah paraktikum ini terlebih dahulu.

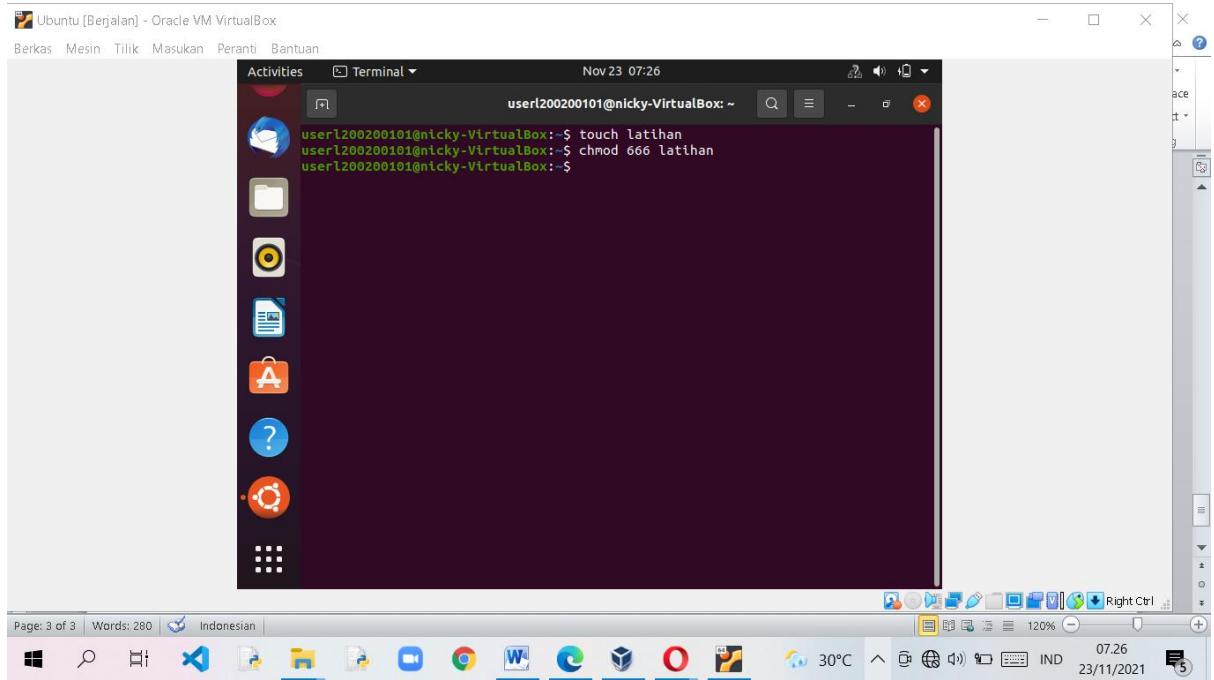
➤ Praktikum 2

Kerjakan perintah berikut :

- Buat file latihan : \$ touch latihan



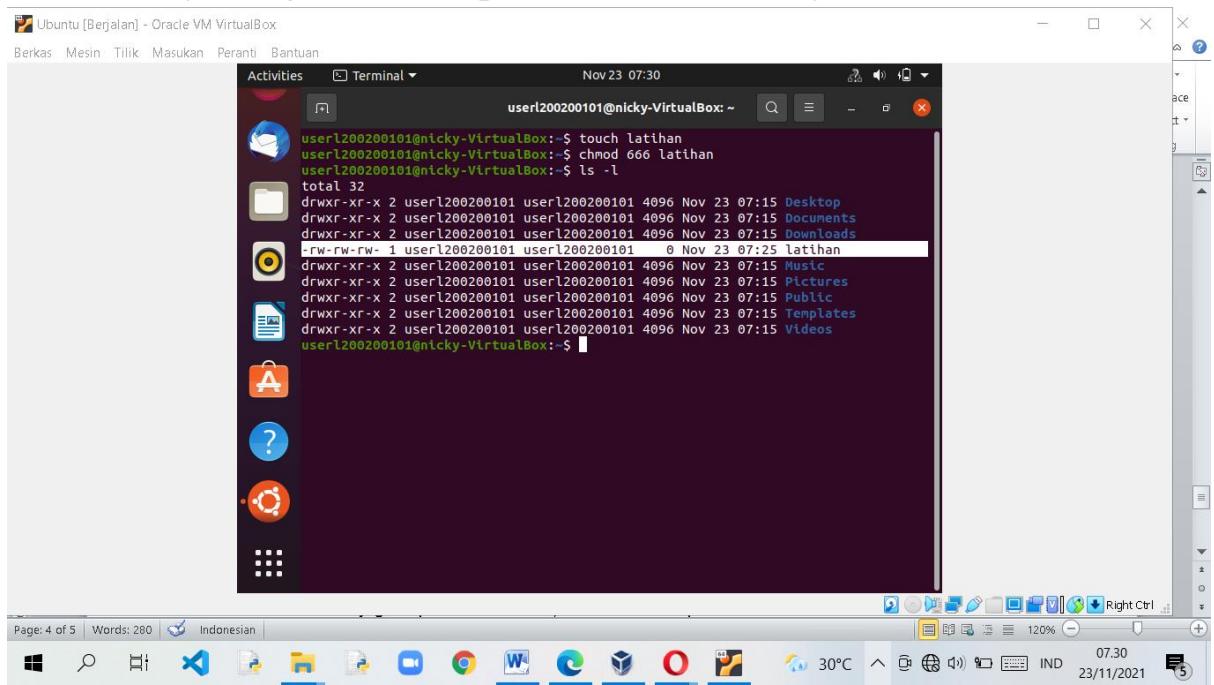
2. Ketikkan perintah : \$ chmod 666 latihan



A screenshot of a Linux desktop environment, likely Ubuntu, running in Oracle VM VirtualBox. The desktop has a dark theme with a dock at the bottom containing various application icons. A terminal window is open in the center, showing the command line interface. The terminal window title is "Activities Terminal". The terminal content shows the user executing three commands:

```
userl200200101@nicky-VirtualBox:~$ touch latihan
userl200200101@nicky-VirtualBox:~$ chmod 666 latihan
userl200200101@nicky-VirtualBox:~$
```

3. Lihat hasilnya dengan : \$ ls -l (perhatikan izin aksesnya)



A screenshot of a Linux desktop environment, likely Ubuntu, running in Oracle VM VirtualBox. The desktop has a dark theme with a dock at the bottom containing various application icons. A terminal window is open in the center, showing the command line interface. The terminal window title is "Activities Terminal". The terminal content shows the user executing three commands and then listing files with "ls -l":

```
userl200200101@nicky-VirtualBox:~$ touch latihan
userl200200101@nicky-VirtualBox:~$ chmod 666 latihan
userl200200101@nicky-VirtualBox:~$ ls -l
total 32
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Desktop
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Documents
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Downloads
-rw-rw-rw- 1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Music
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Pictures
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Public
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Templates
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Videos
userl200200101@nicky-VirtualBox:~$
```

4. Ketikkan perintah : \$ chmod 640 latihan

```
userl200200101@nicky-VirtualBox:~$ touch latihan
userl200200101@nicky-VirtualBox:~$ chmod 666 latihan
userl200200101@nicky-VirtualBox:~$ ls -l
total 32
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Desktop
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Documents
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Downloads
-rw-rw-rw- 1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Music
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Pictures
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Public
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Templates
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Videos
userl200200101@nicky-VirtualBox:~$ chmod 646 latihan
userl200200101@nicky-VirtualBox:~$
```

5. Lihat hasilnya dengan : \$ ls -l (perhatikan izin aksesnya)

```
userl200200101@nicky-VirtualBox:~$ touch latihan
userl200200101@nicky-VirtualBox:~$ chmod 666 latihan
userl200200101@nicky-VirtualBox:~$ ls -l
total 32
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Desktop
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Documents
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Downloads
-rw-rw-rw- 1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Music
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Pictures
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Public
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Templates
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Videos
userl200200101@nicky-VirtualBox:~$ chmod 646 latihan
userl200200101@nicky-VirtualBox:~$ ls -l
total 32
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Desktop
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Documents
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Downloads
-rw-r----- 1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Music
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Pictures
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Public
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Templates
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Videos
userl200200101@nicky-VirtualBox:~$
```

6. Ketikkan perintah : \$ chmod 111 latihan

Ubuntu [Berjalan] - Oracle VM VirtualBox

Berkas Mesin Tilik Masukan Peranti Bantuan

Activities Terminal Nov 23 07:33

```
userl200200101@nicky-VirtualBox:~$ touch latihan
userl200200101@nicky-VirtualBox:~$ chmod 666 latihan
userl200200101@nicky-VirtualBox:~$ ls -l
total 32
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Desktop
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Documents
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Downloads
-rw-rw-rw- 1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Music
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Pictures
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Public
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Templates
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Videos
userl200200101@nicky-VirtualBox:~$ chmod 640 latihan
userl200200101@nicky-VirtualBox:~$ ls -l
total 32
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Desktop
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Documents
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Downloads
-rw-r----- 1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Music
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Pictures
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Public
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Templates
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Videos
userl200200101@nicky-VirtualBox:~$ chmod 111 latihan
userl200200101@nicky-VirtualBox:~$ 
```

7. Lihat hasilnya dengan : \$ ls -l (perhatikan izin aksesnya)

```
Activities Terminal Nov 23 07:33
user1200200101@nicky-VirtualBox: ~
drwxr-xr-x 2 user1200200101 user1200200101 4096 Nov 23 07:15 Pictures
drwxr-xr-x 2 user1200200101 user1200200101 4096 Nov 23 07:15 Public
drwxr-xr-x 2 user1200200101 user1200200101 4096 Nov 23 07:15 Templates
drwxr-xr-x 2 user1200200101 user1200200101 4096 Nov 23 07:15 Videos
user1200200101@nicky-VirtualBox: ~$ chmod 640 latihan
user1200200101@nicky-VirtualBox: ~$ ls -l
total 32
drwxr-xr-x 2 user1200200101 user1200200101 4096 Nov 23 07:15 Desktop
drwxr-xr-x 2 user1200200101 user1200200101 4096 Nov 23 07:15 Documents
drwxr-xr-x 2 user1200200101 user1200200101 4096 Nov 23 07:15 Downloads
-rw-r----- 1 user1200200101 user1200200101 0 Nov 23 07:25 latihan
drwxr-xr-x 2 user1200200101 user1200200101 4096 Nov 23 07:15 Music
drwxr-xr-x 2 user1200200101 user1200200101 4096 Nov 23 07:15 Pictures
drwxr-xr-x 2 user1200200101 user1200200101 4096 Nov 23 07:15 Public
drwxr-xr-x 2 user1200200101 user1200200101 4096 Nov 23 07:15 Templates
drwxr-xr-x 2 user1200200101 user1200200101 4096 Nov 23 07:15 Videos
user1200200101@nicky-VirtualBox: ~$ chmod 111 latihan
user1200200101@nicky-VirtualBox: ~$ ls -l
total 32
drwxr-xr-x 2 user1200200101 user1200200101 4096 Nov 23 07:15 Desktop
drwxr-xr-x 2 user1200200101 user1200200101 4096 Nov 23 07:15 Documents
drwxr-xr-x 2 user1200200101 user1200200101 4096 Nov 23 07:15 Downloads
-r--r----- 1 user1200200101 user1200200101 0 Nov 23 07:25 latihan
drwxr-xr-x 2 user1200200101 user1200200101 4096 Nov 23 07:15 Music
drwxr-xr-x 2 user1200200101 user1200200101 4096 Nov 23 07:15 Pictures
drwxr-xr-x 2 user1200200101 user1200200101 4096 Nov 23 07:15 Public
drwxr-xr-x 2 user1200200101 user1200200101 4096 Nov 23 07:15 Templates
drwxr-xr-x 2 user1200200101 user1200200101 4096 Nov 23 07:15 Videos
user1200200101@nicky-VirtualBox: ~$
```

8. Ketikkan perintah : \$ chmod 222 latihan

A screenshot of a Linux desktop environment (Ubuntu) running in Oracle VM VirtualBox. The terminal window shows the user changing file permissions for a directory named 'latihan' and then listing its contents. The desktop environment includes a dock with various application icons and a system tray at the bottom.

```
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Public
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Templates
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Videos
userl200200101@nicky-VirtualBox:~$ chmod 640 latihan
userl200200101@nicky-VirtualBox:~$ ls -l
total 32
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Desktop
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Documents
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Downloads
-rw-r----- 1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Music
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Pictures
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Public
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Templates
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Videos
userl200200101@nicky-VirtualBox:~$ chmod 111 latihan
userl200200101@nicky-VirtualBox:~$ ls -l
total 32
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Desktop
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Documents
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Downloads
---x---x--- 1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Music
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Pictures
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Public
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Templates
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Videos
userl200200101@nicky-VirtualBox:~$ chmod 222 latihan
userl200200101@nicky-VirtualBox:~$ ls -l
```

9. Lihat hasilnya dengan : \$ ls -l (perhatikan izin aksesnya)

A screenshot of a Linux desktop environment (Ubuntu) running in Oracle VM VirtualBox. The terminal window shows the user changing file permissions for a directory named 'latihan' and then listing its contents. The desktop environment includes a dock with various application icons and a system tray at the bottom.

```
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Pictures
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Public
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Templates
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Videos
userl200200101@nicky-VirtualBox:~$ chmod 111 latihan
userl200200101@nicky-VirtualBox:~$ ls -l
total 32
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Desktop
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Documents
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Downloads
---x---x--- 1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Music
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Pictures
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Public
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Templates
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Videos
userl200200101@nicky-VirtualBox:~$ chmod 222 latihan
userl200200101@nicky-VirtualBox:~$ ls -l
total 32
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Desktop
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Documents
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Downloads
---w---w--- 1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Music
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Pictures
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Public
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Templates
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Videos
userl200200101@nicky-VirtualBox:~$
```

10. Ketikkan perintah : \$ chmod 333 latihan

```

Ubuntu [Berjalan] - Oracle VM VirtualBox
Berkas Mesin Tilik Masukan Peranti Bantuan
Activities Terminal Nov 23 07:36
userl200200101@nicky-VirtualBox: ~
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Public
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Templates
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Videos
userl200200101@nicky-VirtualBox: ~ chmod 111 latihan
userl200200101@nicky-VirtualBox: ~ ls -l
total 32
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Desktop
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Documents
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Downloads
drwxr-xr-x 1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Music
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Pictures
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Public
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Templates
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Videos
userl200200101@nicky-VirtualBox: ~ chmod 222 latihan
userl200200101@nicky-VirtualBox: ~ ls -l
total 32
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Desktop
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Documents
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Downloads
drwxr-xr-x 1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Music
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Pictures
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Public
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Templates
drwxr-xr-x 2 userl200200101 userl200200101 4096 Nov 23 07:15 Videos
userl200200101@nicky-VirtualBox: ~ chmod 333 latihan
userl200200101@nicky-VirtualBox: ~

```

11. Angka konfigurasi yang dapat dikombinasikan adalah angka 0-7.

➤ Praktikum 3:

Hak akses juga dapat ditambahkan, selain diubah seperti cara di atas. Untuk melakukan perubahan hak akses, kita menggunakan operand +x, +r, +w, -r, - w, dan -x.

Kerjakan perintah berikut :

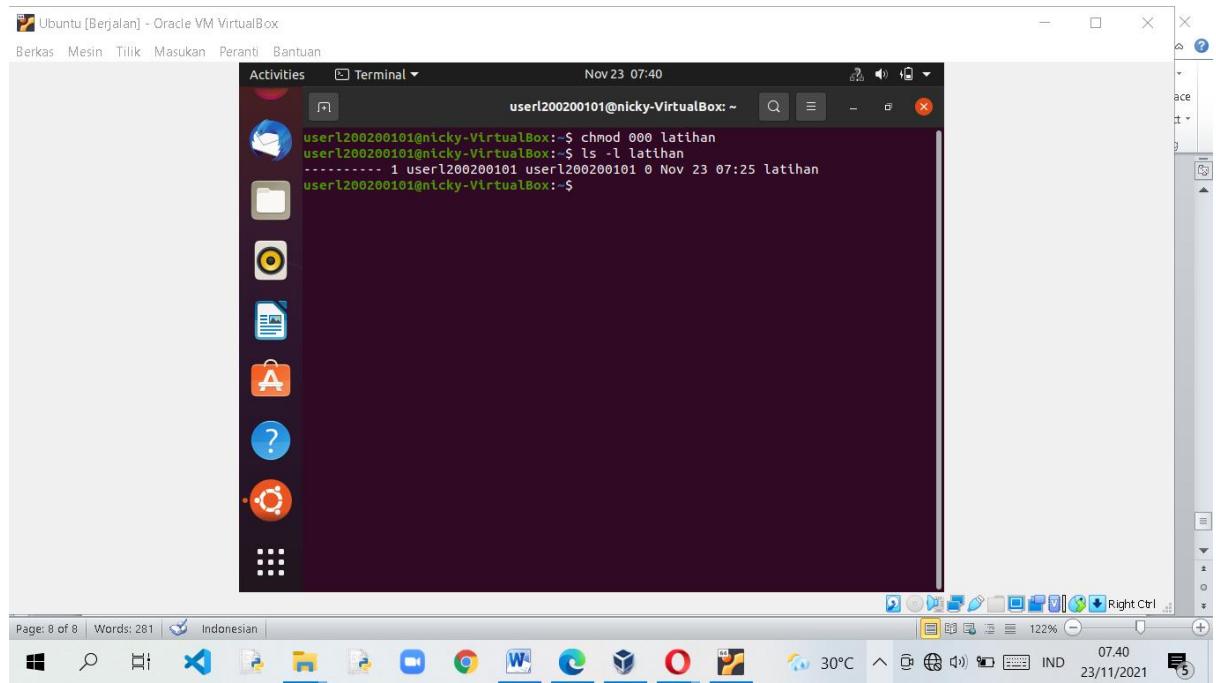
1. \$ chmod 000 latihan (tidak memberikan hak akses)

```

Ubuntu [Berjalan] - Oracle VM VirtualBox
Berkas Mesin Tilik Masukan Peranti Bantuan
Activities Terminal Nov 23 07:40
userl200200101@nicky-VirtualBox: ~
userl200200101@nicky-VirtualBox: ~ chmod 000 latihan
userl200200101@nicky-VirtualBox: ~

```

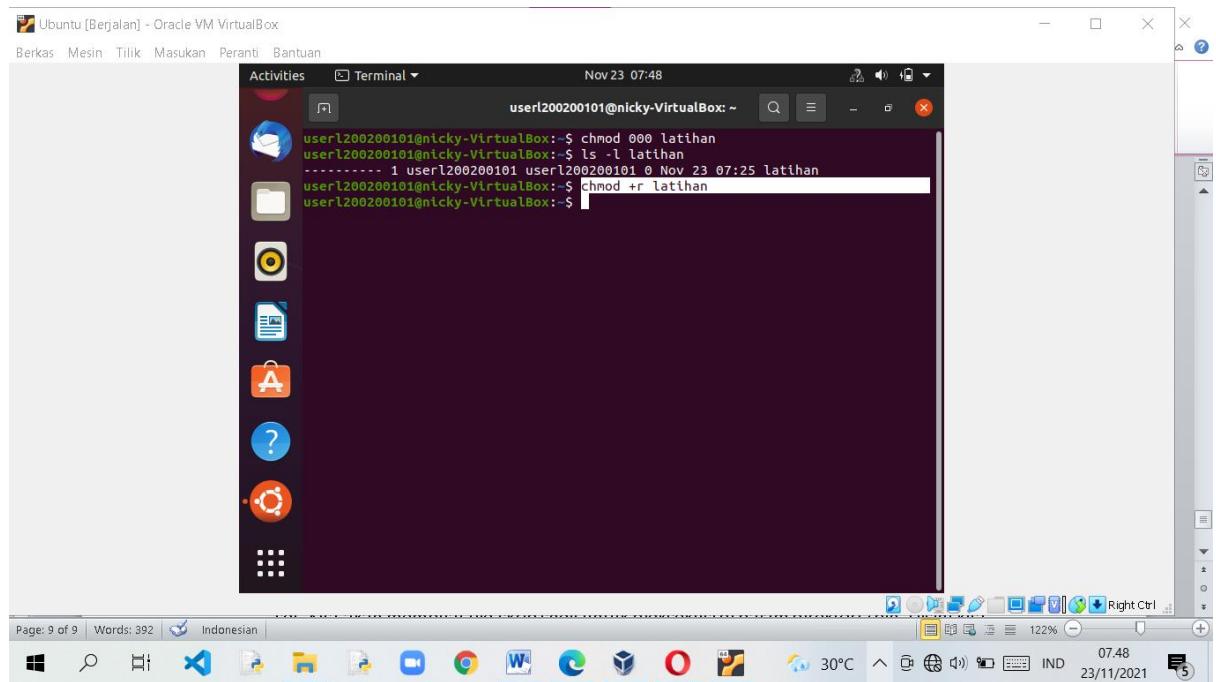
2. \$ ls -l latihan



A screenshot of a Linux desktop environment, likely Ubuntu, running in Oracle VM VirtualBox. The desktop has a dark theme with a dock at the bottom containing various application icons. A terminal window is open in the center, showing the following command and output:

```
user1200200101@nicky-VirtualBox:~$ chmod 000 latihan
user1200200101@nicky-VirtualBox:~$ ls -l latihan
----- 1 user1200200101 user1200200101 0 Nov 23 07:25 latihan
user1200200101@nicky-VirtualBox:~$
```

3. \$ chmod +r latihan (menambahkan hak akses read)



A screenshot of a Linux desktop environment, likely Ubuntu, running in Oracle VM VirtualBox. The desktop has a dark theme with a dock at the bottom containing various application icons. A terminal window is open in the center, showing the following command and output:

```
user1200200101@nicky-VirtualBox:~$ chmod 000 latihan
user1200200101@nicky-VirtualBox:~$ ls -l latihan
----- 1 user1200200101 user1200200101 0 Nov 23 07:25 latihan
user1200200101@nicky-VirtualBox:~$ chmod +r latihan
user1200200101@nicky-VirtualBox:~$
```

4. \$ ls -l latihan

```
userl200200101@nicky-VirtualBox:~$ chmod 000 latihan
userl200200101@nicky-VirtualBox:~$ ls -l latihan
----- 1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
userl200200101@nicky-VirtualBox:~$ chmod +r latihan
userl200200101@nicky-VirtualBox:~$ ls -l latihan
-r--r--r-- 1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
userl200200101@nicky-VirtualBox:~$
```

5. \$ chmod +w latihan (menambahkan hak akses write)

```
userl200200101@nicky-VirtualBox:~$ chmod 000 latihan
userl200200101@nicky-VirtualBox:~$ ls -l latihan
----- 1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
userl200200101@nicky-VirtualBox:~$ chmod +r latihan
userl200200101@nicky-VirtualBox:~$ ls -l latihan
-r--r--r-- 1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
userl200200101@nicky-VirtualBox:~$ chmod +w latihan
userl200200101@nicky-VirtualBox:~$
```

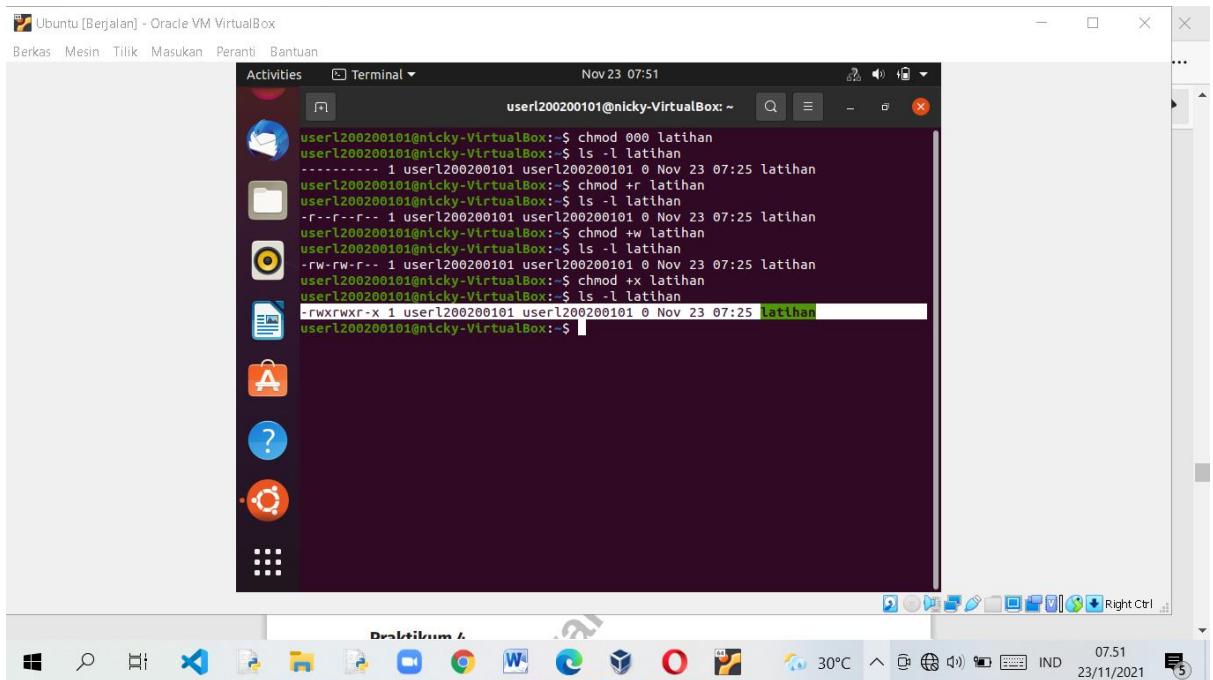
6. \$ ls -l latihan

```
userl200200101@nicky-VirtualBox:~$ chmod 000 latihan
userl200200101@nicky-VirtualBox:~$ ls -l latihan
----- 1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
userl200200101@nicky-VirtualBox:~$ chmod +r latihan
userl200200101@nicky-VirtualBox:~$ ls -l latihan
-r--r--r-- 1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
userl200200101@nicky-VirtualBox:~$ chmod +w latihan
userl200200101@nicky-VirtualBox:~$ ls -l latihan
-rw-rw-r-- 1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
userl200200101@nicky-VirtualBox:~$
```

7. \$ chmod +x latihan (menambahkan hak akses execute)

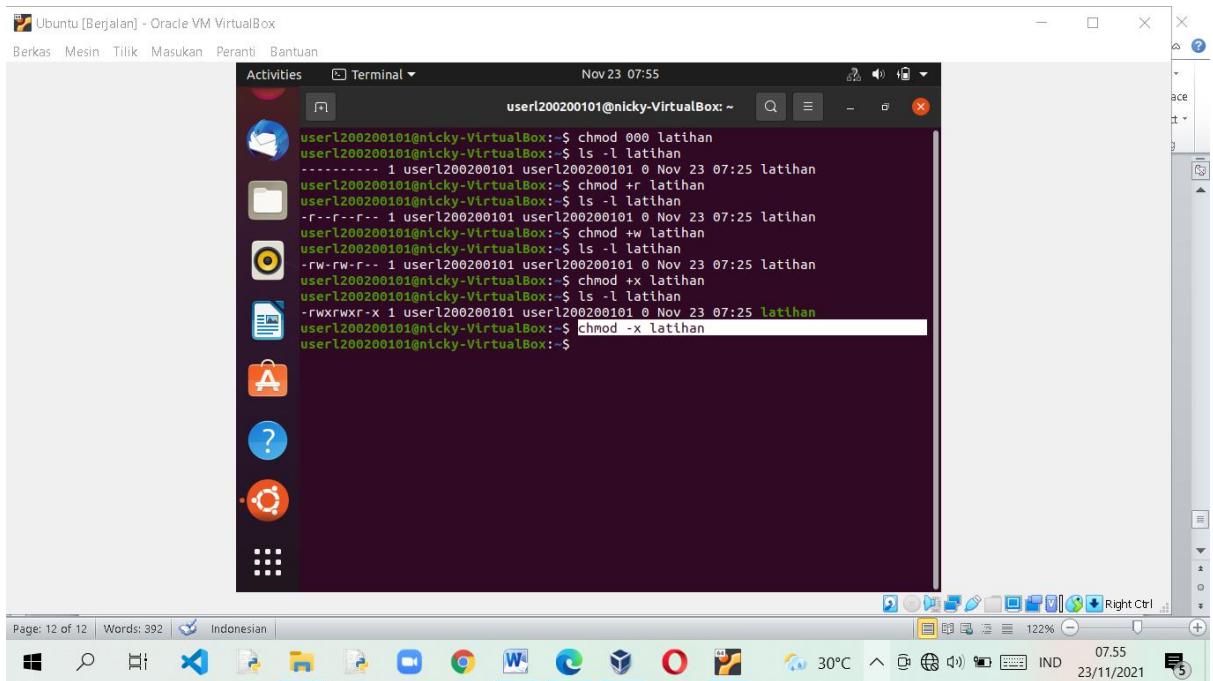
```
userl200200101@nicky-VirtualBox:~$ chmod 000 latihan
userl200200101@nicky-VirtualBox:~$ ls -l latihan
----- 1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
userl200200101@nicky-VirtualBox:~$ chmod +r latihan
userl200200101@nicky-VirtualBox:~$ ls -l latihan
-r--r--r-- 1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
userl200200101@nicky-VirtualBox:~$ chmod +w latihan
userl200200101@nicky-VirtualBox:~$ ls -l latihan
-rw-rw-r-- 1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
userl200200101@nicky-VirtualBox:~$ chmod +x latihan
userl200200101@nicky-VirtualBox:~$
```

8. \$ ls -l latihan



```
userl200200101@nicky-VirtualBox:~$ chmod 000 latihan
userl200200101@nicky-VirtualBox:~$ ls -l latihan
----- 1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
userl200200101@nicky-VirtualBox:~$ chmod +r latihan
userl200200101@nicky-VirtualBox:~$ ls -l latihan
-r--r--r-- 1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
userl200200101@nicky-VirtualBox:~$ chmod +w latihan
userl200200101@nicky-VirtualBox:~$ ls -l latihan
-rw-rw-r-- 1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
userl200200101@nicky-VirtualBox:~$ chmod +x latihan
userl200200101@nicky-VirtualBox:~$ ls -l latihan
-rwxrwxr-x 1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
userl200200101@nicky-VirtualBox:~$
```

9. \$ chmod -x latihan (menghilangkan hak akses execute)



```
userl200200101@nicky-VirtualBox:~$ chmod 000 latihan
userl200200101@nicky-VirtualBox:~$ ls -l latihan
----- 1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
userl200200101@nicky-VirtualBox:~$ chmod +r latihan
userl200200101@nicky-VirtualBox:~$ ls -l latihan
-r--r--r-- 1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
userl200200101@nicky-VirtualBox:~$ chmod +w latihan
userl200200101@nicky-VirtualBox:~$ ls -l latihan
-rw-rw-r-- 1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
userl200200101@nicky-VirtualBox:~$ chmod +x latihan
userl200200101@nicky-VirtualBox:~$ ls -l latihan
-rwxrwxr-x 1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
userl200200101@nicky-VirtualBox:~$ chmod -x latihan
userl200200101@nicky-VirtualBox:~$
```

10.\$ ls -l latihan

A screenshot of a Linux desktop environment (Ubuntu) running in Oracle VM VirtualBox. The desktop has a dark theme with a dock at the bottom containing icons for various applications like Microsoft Word, Google Chrome, and File Explorer. A terminal window is open in the top panel, showing a user's session. The terminal history shows the user changing file permissions for a file named 'latihan'. The last command entered was 'chmod -w latihan'.

```
userl200200101@nicky-VirtualBox:~$ chmod 000 latihan
userl200200101@nicky-VirtualBox:~$ ls -l latihan
-----
1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
userl200200101@nicky-VirtualBox:~$ chmod +r latihan
userl200200101@nicky-VirtualBox:~$ ls -l latihan
-r--r--r-- 1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
userl200200101@nicky-VirtualBox:~$ chmod +w latihan
userl200200101@nicky-VirtualBox:~$ ls -l latihan
-rw-rw-r-- 1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
userl200200101@nicky-VirtualBox:~$ chmod +x latihan
userl200200101@nicky-VirtualBox:~$ ls -l latihan
-rwxrwxr-x 1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
userl200200101@nicky-VirtualBox:~$ chmod -x latihan
userl200200101@nicky-VirtualBox:~$ ls -l latihan
-rw-rw-r-- 1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
userl200200101@nicky-VirtualBox:~$
```

11.\$ chmod -w latihan (menghilangkan hak akses write)

A screenshot of a Linux desktop environment (Ubuntu) running in Oracle VM VirtualBox. The desktop has a dark theme with a dock at the bottom containing icons for various applications like Microsoft Word, Google Chrome, and File Explorer. A terminal window is open in the top panel, showing a user's session. The terminal history shows the user changing file permissions for a file named 'latihan'. The last command entered was 'chmod -w latihan'.

```
userl200200101@nicky-VirtualBox:~$ chmod 000 latihan
userl200200101@nicky-VirtualBox:~$ ls -l latihan
-----
1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
userl200200101@nicky-VirtualBox:~$ chmod +r latihan
userl200200101@nicky-VirtualBox:~$ ls -l latihan
-r--r--r-- 1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
userl200200101@nicky-VirtualBox:~$ chmod +w latihan
userl200200101@nicky-VirtualBox:~$ ls -l latihan
-rw-rw-r-- 1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
userl200200101@nicky-VirtualBox:~$ chmod +x latihan
userl200200101@nicky-VirtualBox:~$ ls -l latihan
-rwxrwxr-x 1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
userl200200101@nicky-VirtualBox:~$ chmod -x latihan
userl200200101@nicky-VirtualBox:~$ ls -l latihan
-rw-rw-r-- 1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
userl200200101@nicky-VirtualBox:~$ chmod -w latihan
userl200200101@nicky-VirtualBox:~$
```

12.\$ ls -l latihan

```
userl200200101@nicky-VirtualBox:~$ chmod 000 latihan
userl200200101@nicky-VirtualBox:~$ ls -l latihan
----- 1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
userl200200101@nicky-VirtualBox:~$ chmod +r latihan
userl200200101@nicky-VirtualBox:~$ ls -l latihan
-r--r--r-- 1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
userl200200101@nicky-VirtualBox:~$ chmod +w latihan
userl200200101@nicky-VirtualBox:~$ ls -l latihan
-rw-rw-r-- 1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
userl200200101@nicky-VirtualBox:~$ chmod +x latihan
userl200200101@nicky-VirtualBox:~$ ls -l latihan
-rwxrwxr-x 1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
userl200200101@nicky-VirtualBox:~$ chmod -x latihan
userl200200101@nicky-VirtualBox:~$ ls -l latihan
-rw-rw-r-- 1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
userl200200101@nicky-VirtualBox:~$ chmod -w latihan
userl200200101@nicky-VirtualBox:~$ ls -l latihan
-r--r--r-- 1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
userl200200101@nicky-VirtualBox:~$
```

13.\$ chmod -r latihan (menghilangkan hak akses read)

```
userl200200101@nicky-VirtualBox:~$ chmod 000 latihan
userl200200101@nicky-VirtualBox:~$ ls -l latihan
----- 1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
userl200200101@nicky-VirtualBox:~$ chmod +r latihan
userl200200101@nicky-VirtualBox:~$ ls -l latihan
-r--r--r-- 1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
userl200200101@nicky-VirtualBox:~$ chmod +w latihan
userl200200101@nicky-VirtualBox:~$ ls -l latihan
-rw-rw-r-- 1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
userl200200101@nicky-VirtualBox:~$ chmod +x latihan
userl200200101@nicky-VirtualBox:~$ ls -l latihan
-rwxrwxr-x 1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
userl200200101@nicky-VirtualBox:~$ chmod -x latihan
userl200200101@nicky-VirtualBox:~$ ls -l latihan
-rw-rw-r-- 1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
userl200200101@nicky-VirtualBox:~$ chmod -w latihan
userl200200101@nicky-VirtualBox:~$ ls -l latihan
-r--r--r-- 1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
userl200200101@nicky-VirtualBox:~$ chmod -r latihan
userl200200101@nicky-VirtualBox:~$
```

14.\$ ls -l latihan

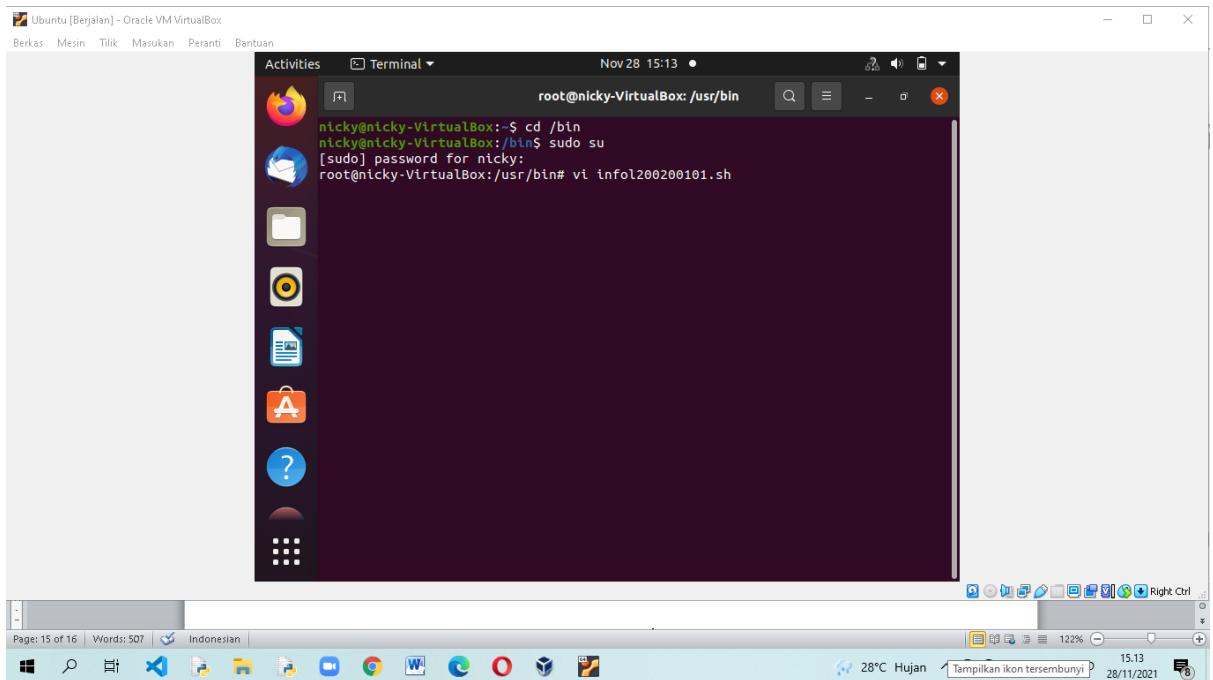
```
userl200200101@nicky-VirtualBox:~$ chmod 000 latihan
userl200200101@nicky-VirtualBox:~$ ls -l latihan
-----
1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
userl200200101@nicky-VirtualBox:~$ chmod +r latihan
userl200200101@nicky-VirtualBox:~$ ls -l latihan
-r--r--r-- 1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
userl200200101@nicky-VirtualBox:~$ chmod +w latihan
userl200200101@nicky-VirtualBox:~$ ls -l latihan
-rw-rw-r-- 1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
userl200200101@nicky-VirtualBox:~$ chmod +x latihan
userl200200101@nicky-VirtualBox:~$ ls -l latihan
-rwxrwxr-x 1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
userl200200101@nicky-VirtualBox:~$ chmod -x latihan
userl200200101@nicky-VirtualBox:~$ ls -l latihan
-r--r--r-- 1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
userl200200101@nicky-VirtualBox:~$ chmod -r latihan
userl200200101@nicky-VirtualBox:~$ ls -l latihan
-----
1 userl200200101 userl200200101 0 Nov 23 07:25 latihan
userl200200101@nicky-VirtualBox:~$
```

Perintah +operand/-operand pada chmod akan mengubah hak akses sesuai dengan default set. Kita akan membuat file skrip shell untuk dieksekusi di dalam direktori /bin. Disini kita akan melakukan perubahan hak akses agar file tersebut bisa dieksekusi.

➤ Praktikum 4

Jalankan perintah berikut :

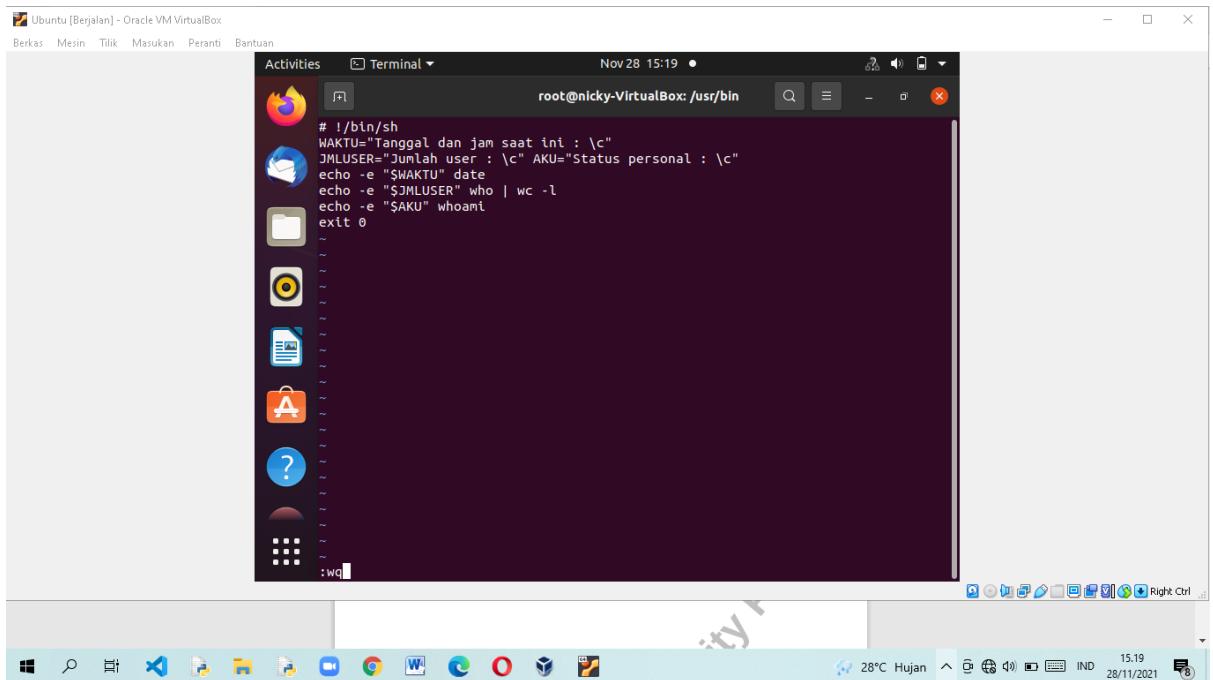
1. Masuklah ke dalam direktori /bin : \$ cd /bin
2. Buat file bernama info.sh : \$ vi info.sh



3. Ketik isinya (jangan lupa menekan tombol i dulu) sebagai berikut
(perhatikan besar/kecil hurufnya)

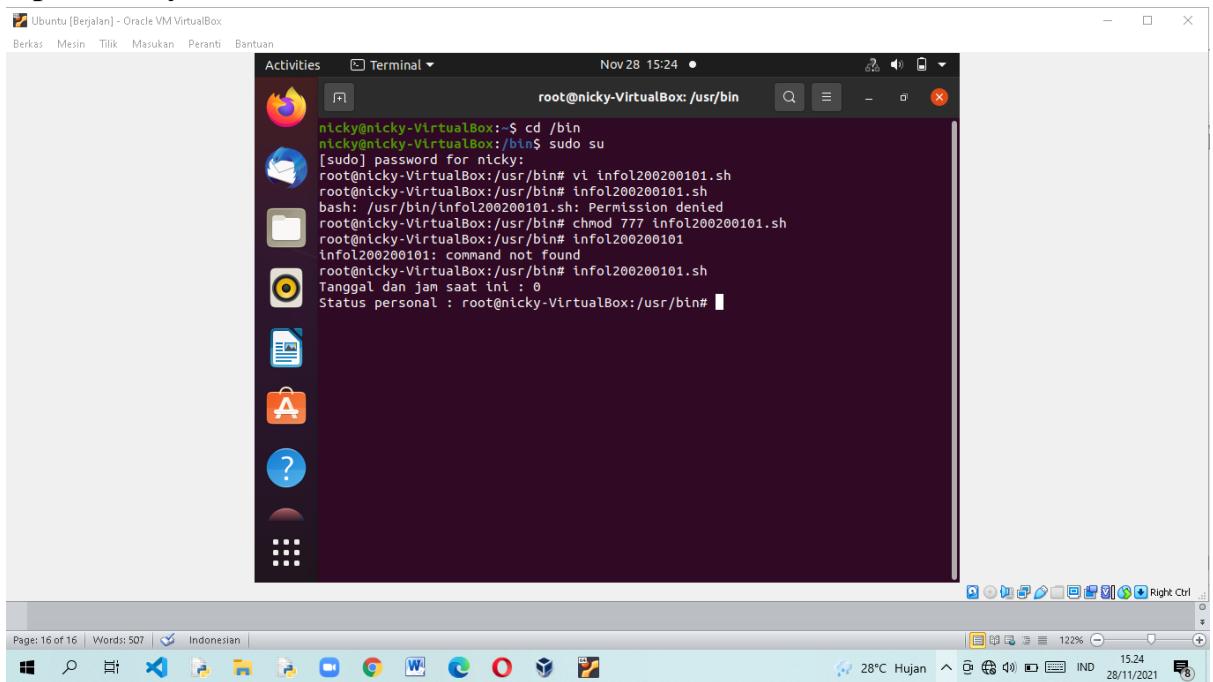
```
#!/bin/sh
WAKTU="Tanggal dan jam saat ini : \c"
JMLUSER="Jumlah user : \c" AKU="Status
personal : \c"
echo -e "$WAKTU" date
echo -e "$JMLUSER" who | wc -l
echo -e "$AKU" whoamiexit 0
```

4. Simpan dan keluar dengan menekan ESC, dan mengetik :wq <ENTER>



```
#!/bin/sh
WAKTU="Tanggal dan jam saat ini : `date`"
JMLUSER=`Jumlah user : `c` AKU="Status personal : `c``
echo -e "$WAKTU" date
echo -e "$JMLUSER" who | wc -l
echo -e "$AKU" whoami
exit 0
```

5. Ketikkan perintah loginfo.sh : \$ info<nim anda>.sh
6. Ubah tipenya menjadi file yang bisa dieksekusi : \$ chmod 777 info<nim anda>.sh
7. Ketikkan perintah info.sh : \$ info<nim anda>.sh
8. Apa hasilnya?



```
nicky@nicky-VirtualBox:~$ cd /bin
nicky@nicky-VirtualBox:/bin$ sudo su
[sudo] password for nicky:
root@nicky-VirtualBox:/usr/bin# vi infol200200101.sh
root@nicky-VirtualBox:/usr/bin# infol200200101.sh: Permission denied
bash: /usr/bin/infol200200101.sh: Permission denied
root@nicky-VirtualBox:/usr/bin# chmod 777 infol200200101.sh
root@nicky-VirtualBox:/usr/bin# infol200200101
infol200200101: command not found
root@nicky-VirtualBox:/usr/bin# infol200200101.sh
Tanggal dan jam saat ini : 0
Status personal : root@nicky-VirtualBox:/usr/bin#
```