

PRAKTIKUM SISTEM OPERASI
UAS



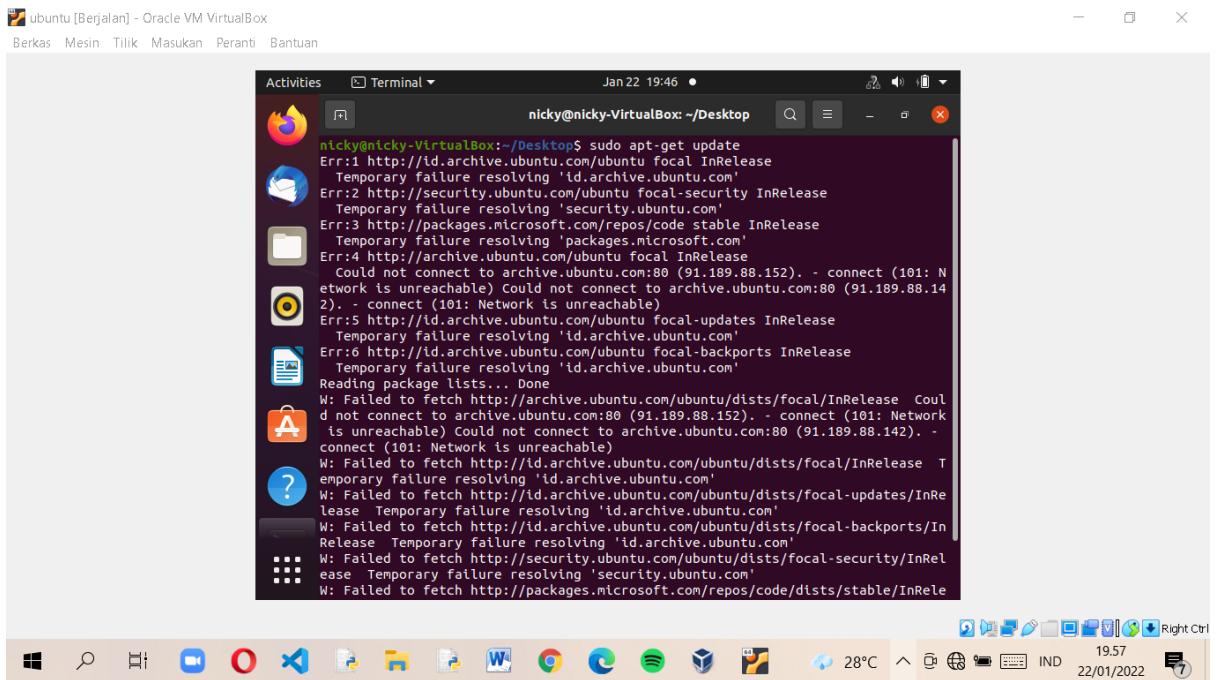
Nama : NICKY JULYATRIKA SARI

NIM : L200200101

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

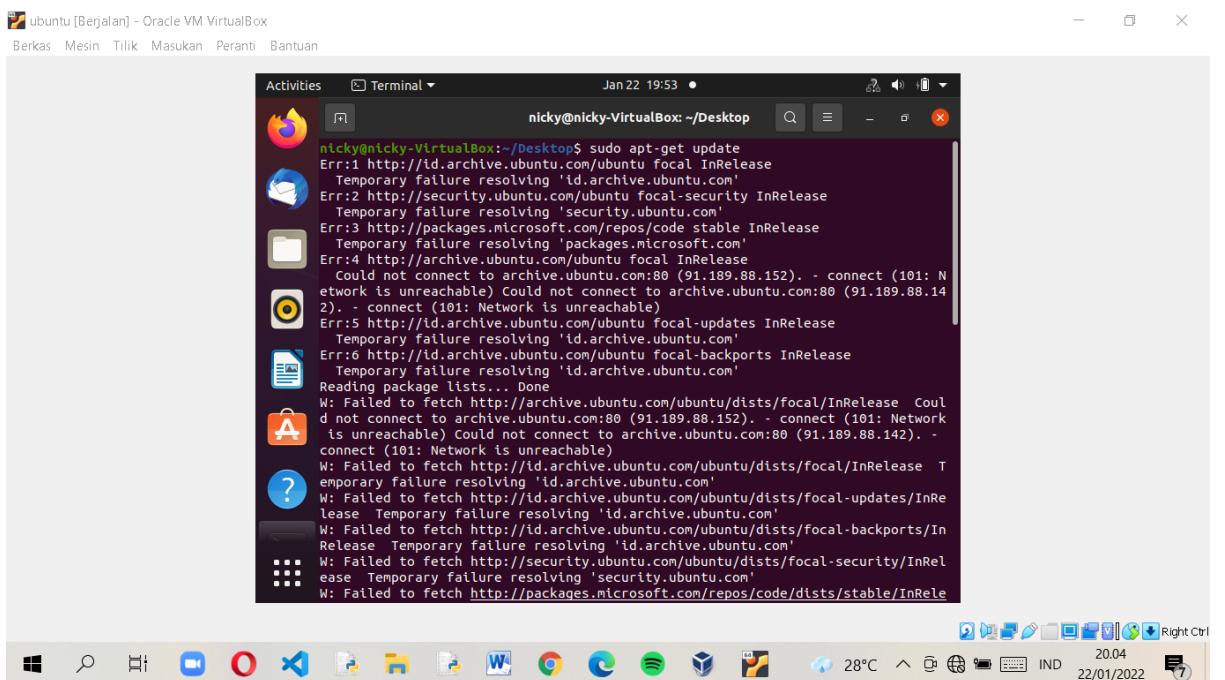
1. Lakukan perintah untuk update pada so linux, kemudian install 3 aplikasi yang belum ada di pc setelah ter install hilangkan 1 aplikasi baru tadi. Kemudian screenshoot hasil kerja kalian untuk dibuat laporan

**Pesan : Karena terjadi error pada system ubuntu saya,saya meminjam laptop milik teman saya untuk mengerjakan soal nomer 1.
Jadi,saya harap pengertian dari pak ihsan dan sebelumnya saya minta maaf yang sebesar-besarnya.terimakasih**



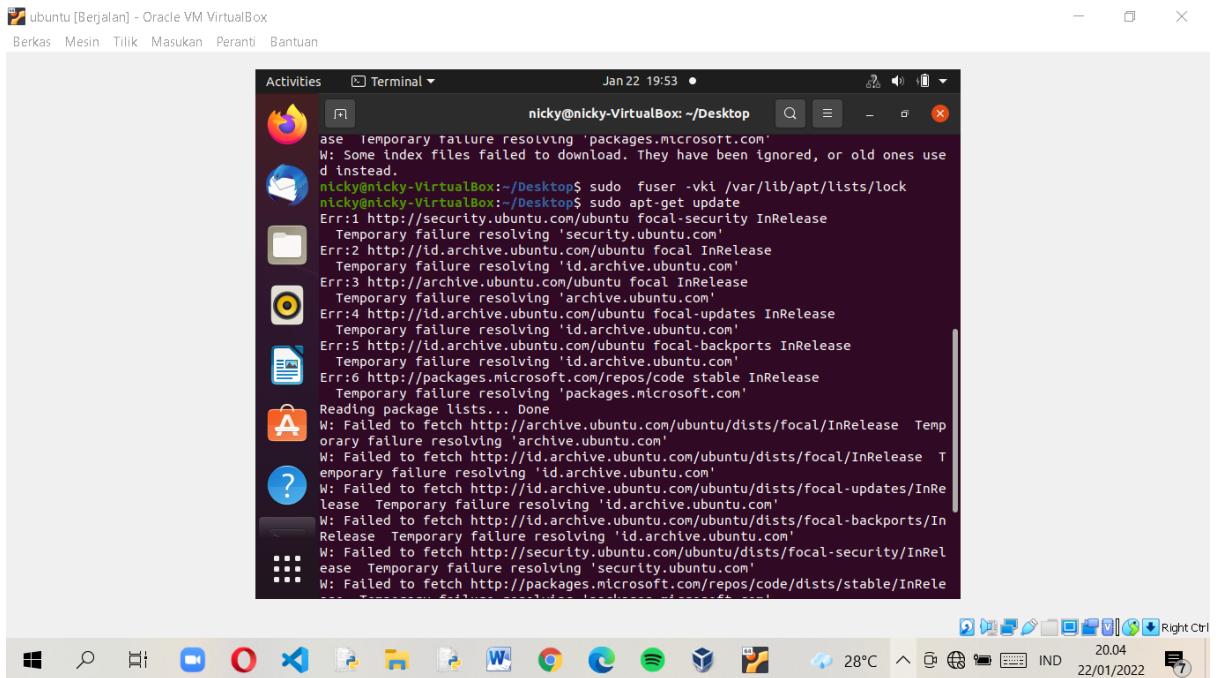
The screenshot shows a Linux desktop environment with a terminal window open. The terminal window title is "Activities Terminal" and the command run is "nicky@nicky-VirtualBox: ~/Desktop\$ sudo apt-get update". The output of the command is a long error log. The desktop interface includes a dock with various application icons and a system tray at the bottom right showing the date and time.

```
nicky@nicky-VirtualBox:~/Desktop$ sudo apt-get update
Err:1 http://id.archive.ubuntu.com/ubuntu focal InRelease
  Temporary failure resolving 'id.archive.ubuntu.com'
Err:2 http://security.ubuntu.com/ubuntu focal-security InRelease
  Temporary failure resolving 'security.ubuntu.com'
Err:3 http://packages.microsoft.com/repos/code stable InRelease
  Temporary failure resolving 'packages.microsoft.com'
Err:4 http://archive.ubuntu.com/ubuntu focal InRelease
  Could not connect to archive.ubuntu.com:80 (91.189.88.152). - connect (101: Network is unreachable) Could not connect to archive.ubuntu.com:80 (91.189.88.142)
  - connect (101: Network is unreachable)
Err:5 http://id.archive.ubuntu.com/ubuntu focal-updates InRelease
  Temporary failure resolving 'id.archive.ubuntu.com'
Err:6 http://id.archive.ubuntu.com/ubuntu focal-backports InRelease
  Temporary failure resolving 'id.archive.ubuntu.com'
Reading package lists... Done
W: Failed to fetch http://archive.ubuntu.com/ubuntu/dists/focal/InRelease  Could not connect to archive.ubuntu.com:80 (91.189.88.152). - connect (101: Network is unreachable) Could not connect to archive.ubuntu.com:80 (91.189.88.142). - connect (101: Network is unreachable)
W: Failed to fetch http://id.archive.ubuntu.com/ubuntu/dists/focal-updates/InRelease  Temporary failure resolving 'id.archive.ubuntu.com'
W: Failed to fetch http://id.archive.ubuntu.com/ubuntu/dists/focal-backports/InRelease  Temporary failure resolving 'id.archive.ubuntu.com'
W: Failed to fetch http://security.ubuntu.com/ubuntu/dists/focal-security/InRelease  Temporary failure resolving 'security.ubuntu.com'
W: Failed to fetch http://packages.microsoft.com/dists/stable/InRelease
```

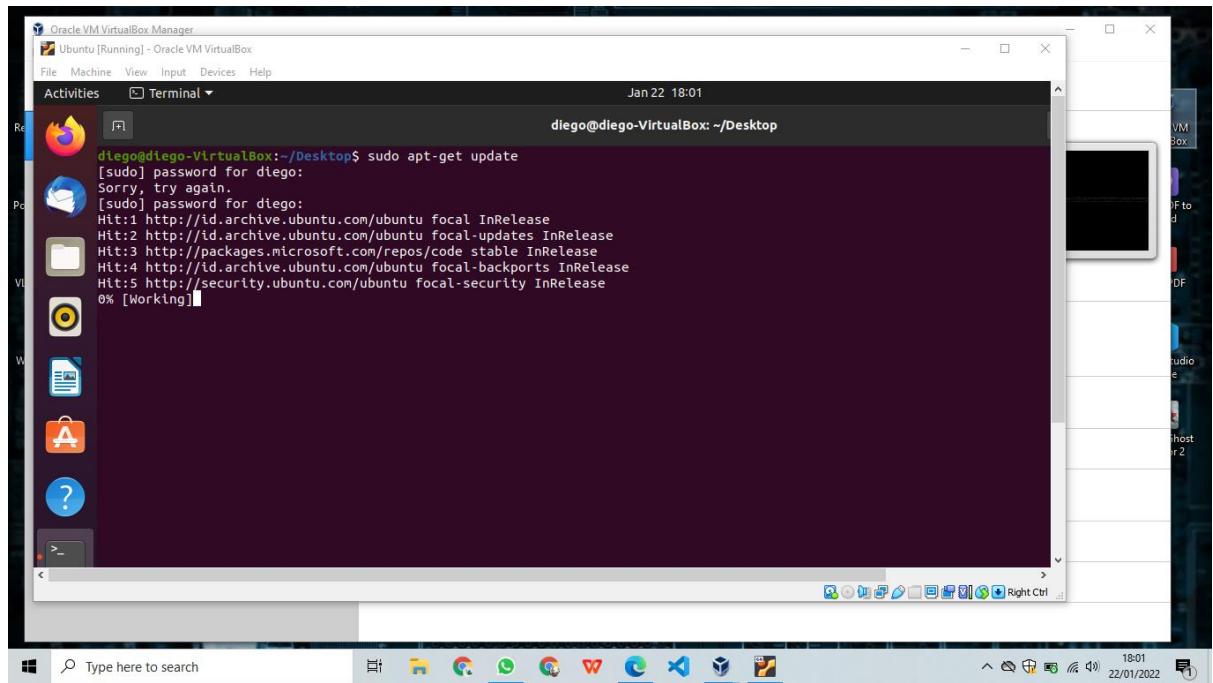


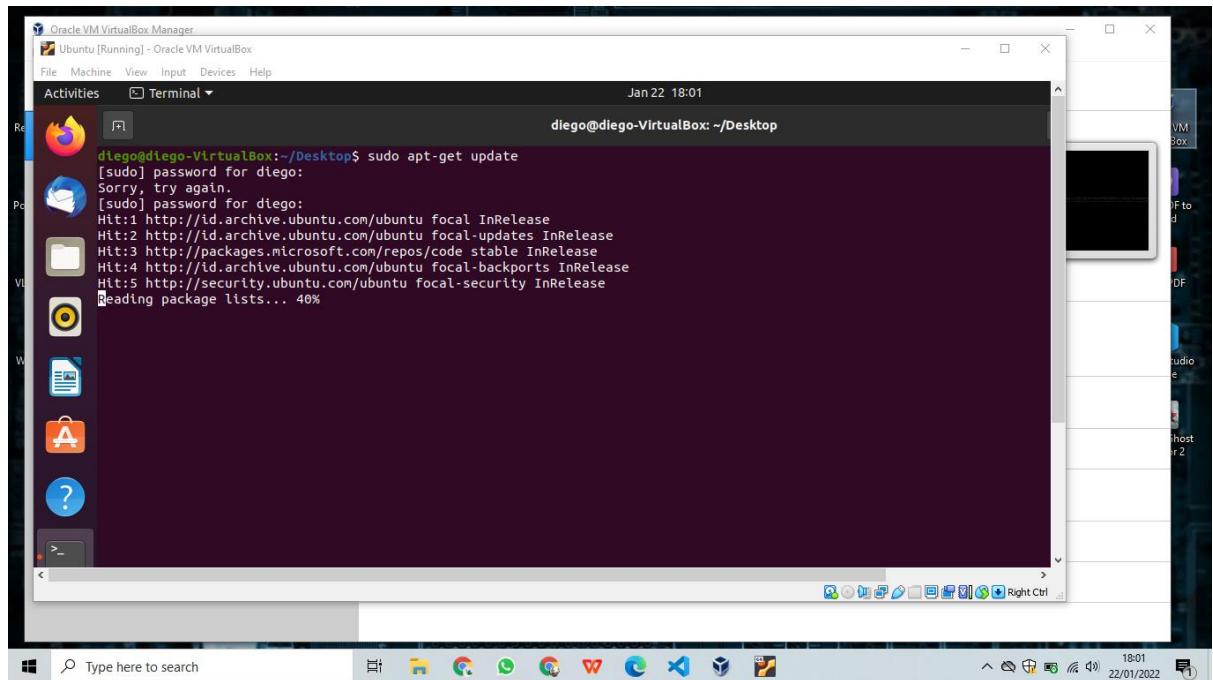
The screenshot shows a Linux desktop environment with a terminal window open. The terminal window title is "Activities Terminal" and the command run is "nicky@nicky-VirtualBox: ~/Desktop\$ sudo apt-get update". The output of the command is a long error log. The desktop interface includes a dock with various application icons and a system tray at the bottom right showing the date and time.

```
nicky@nicky-VirtualBox:~/Desktop$ sudo apt-get update
Err:1 http://id.archive.ubuntu.com/ubuntu focal InRelease
  Temporary failure resolving 'id.archive.ubuntu.com'
Err:2 http://security.ubuntu.com/ubuntu focal-security InRelease
  Temporary failure resolving 'security.ubuntu.com'
Err:3 http://packages.microsoft.com/repos/code stable InRelease
  Temporary failure resolving 'packages.microsoft.com'
Err:4 http://archive.ubuntu.com/ubuntu focal InRelease
  Could not connect to archive.ubuntu.com:80 (91.189.88.152). - connect (101: Network is unreachable) Could not connect to archive.ubuntu.com:80 (91.189.88.142)
  - connect (101: Network is unreachable)
Err:5 http://id.archive.ubuntu.com/ubuntu focal-updates InRelease
  Temporary failure resolving 'id.archive.ubuntu.com'
Err:6 http://id.archive.ubuntu.com/ubuntu focal-backports InRelease
  Temporary failure resolving 'id.archive.ubuntu.com'
Reading package lists... Done
W: Failed to fetch http://archive.ubuntu.com/ubuntu/dists/focal/InRelease  Could not connect to archive.ubuntu.com:80 (91.189.88.152). - connect (101: Network is unreachable) Could not connect to archive.ubuntu.com:80 (91.189.88.142). - connect (101: Network is unreachable)
W: Failed to fetch http://id.archive.ubuntu.com/ubuntu/dists/focal-updates/InRelease  Temporary failure resolving 'id.archive.ubuntu.com'
W: Failed to fetch http://id.archive.ubuntu.com/ubuntu/dists/focal-backports/InRelease  Temporary failure resolving 'id.archive.ubuntu.com'
W: Failed to fetch http://security.ubuntu.com/ubuntu/dists/focal-security/InRelease  Temporary failure resolving 'security.ubuntu.com'
W: Failed to fetch http://packages.microsoft.com/dists/stable/InRelease
```

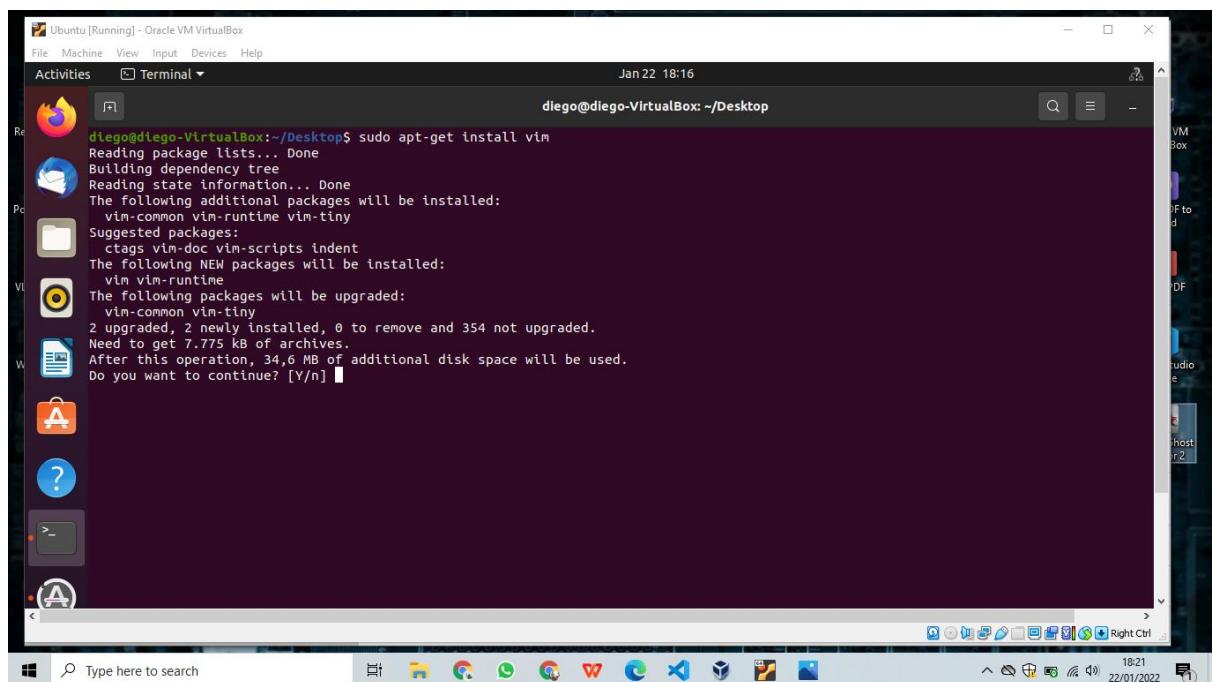


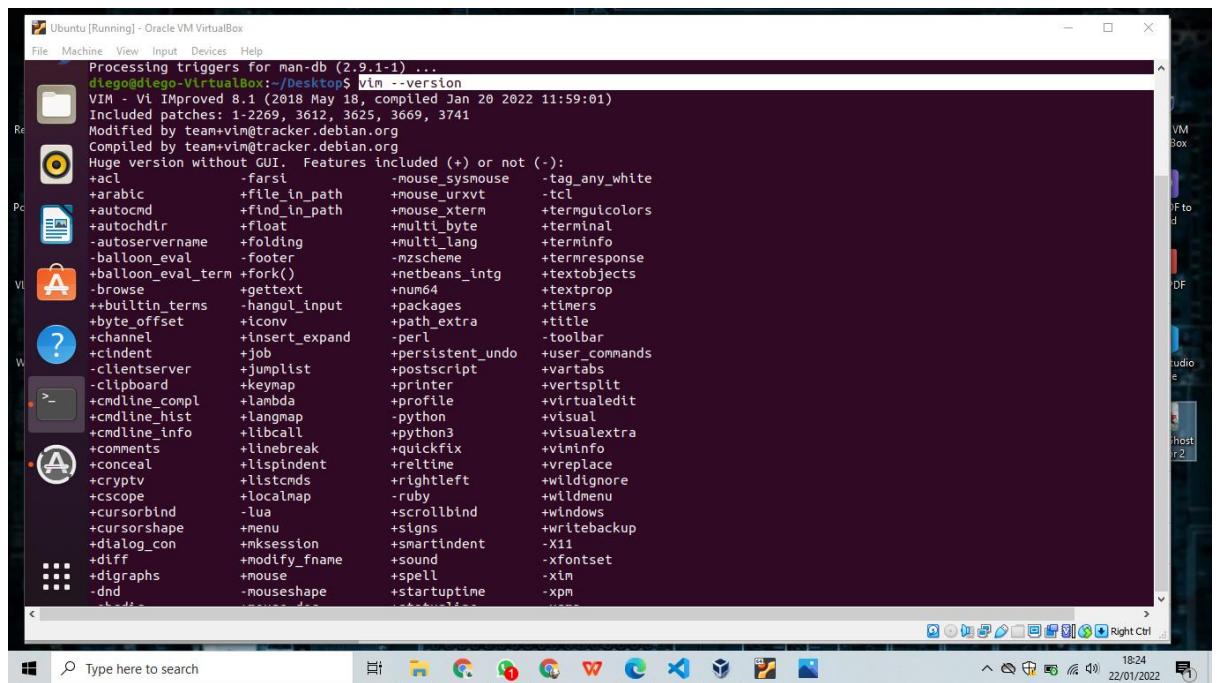
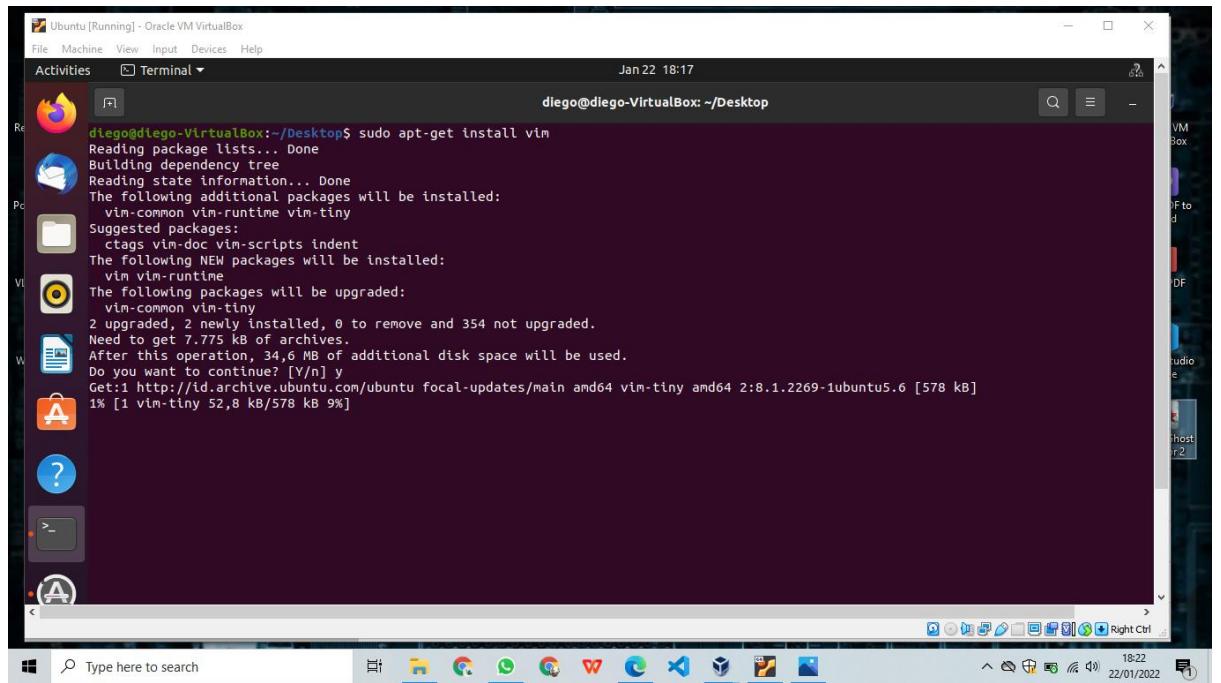
a. Perintah update

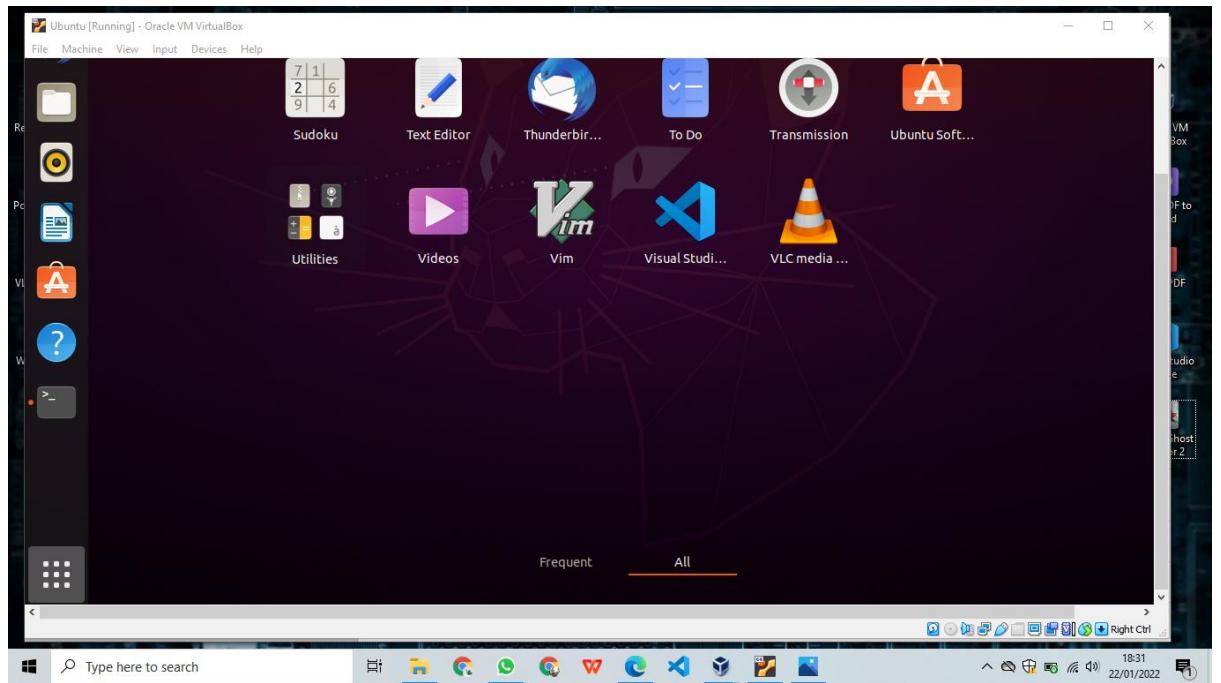




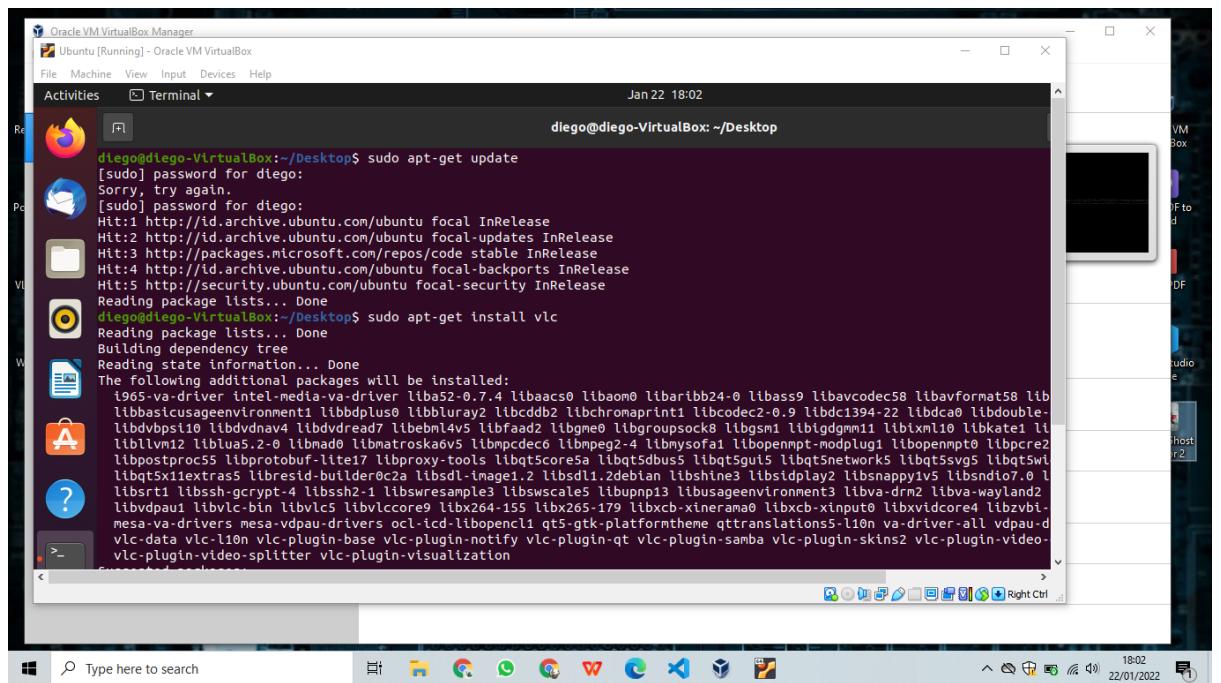
b. Instal aplikasi 1 = vim

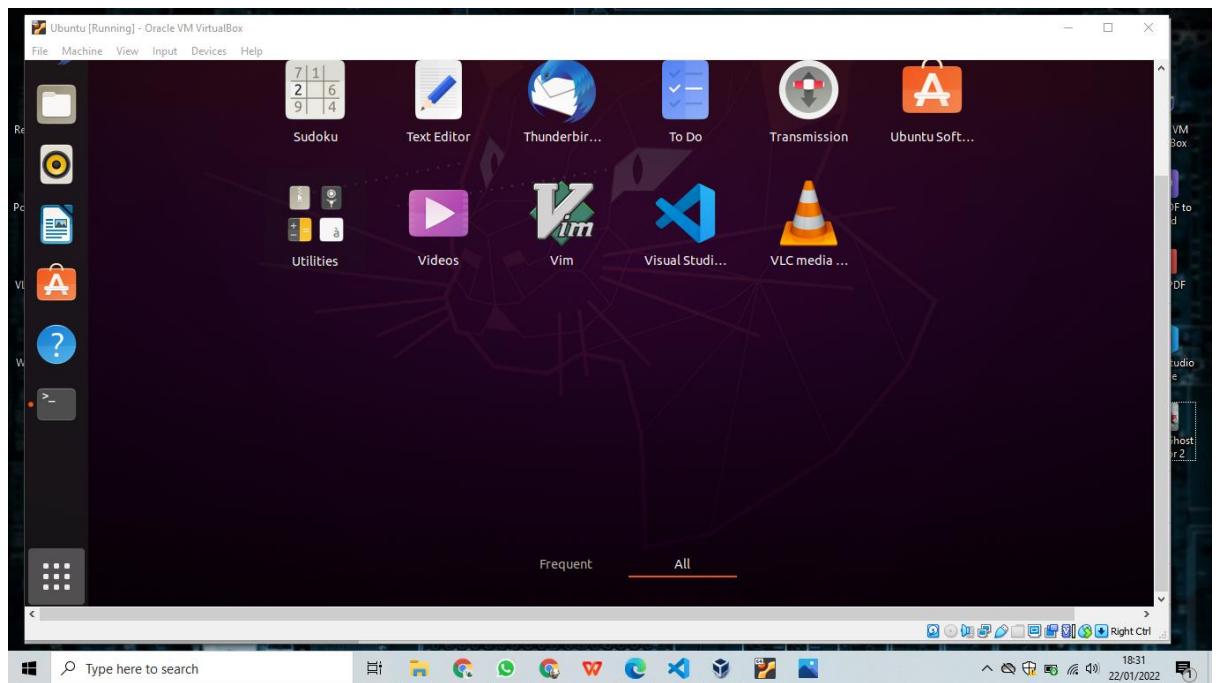
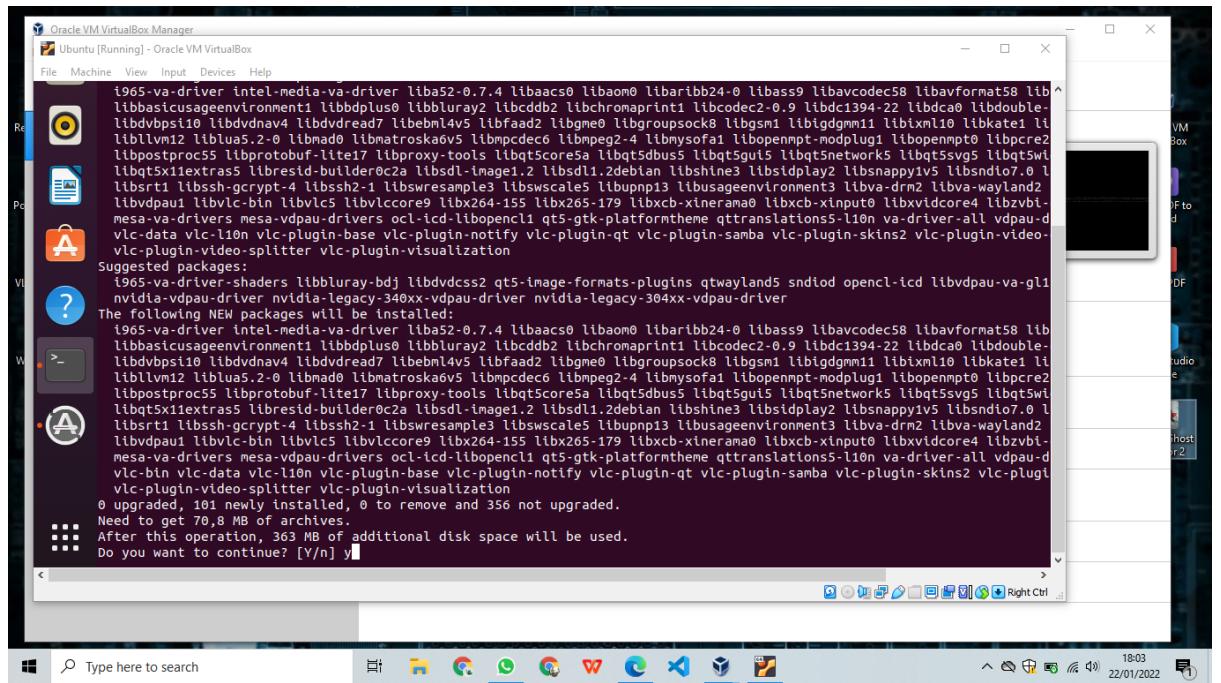


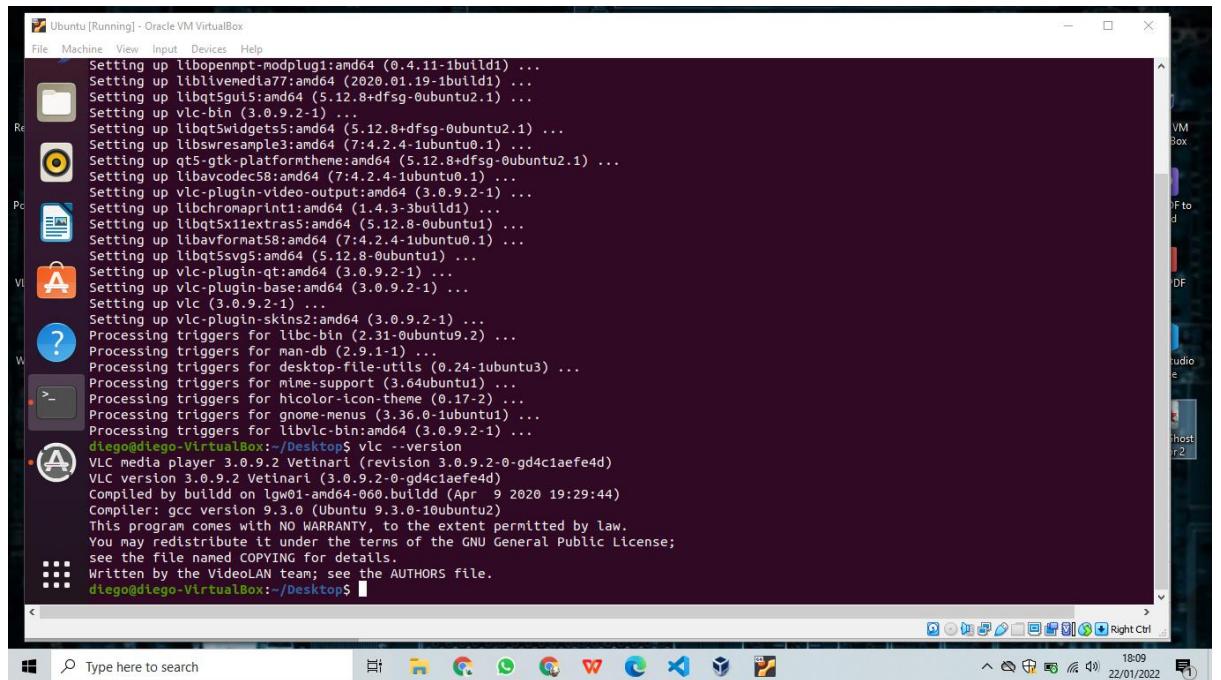




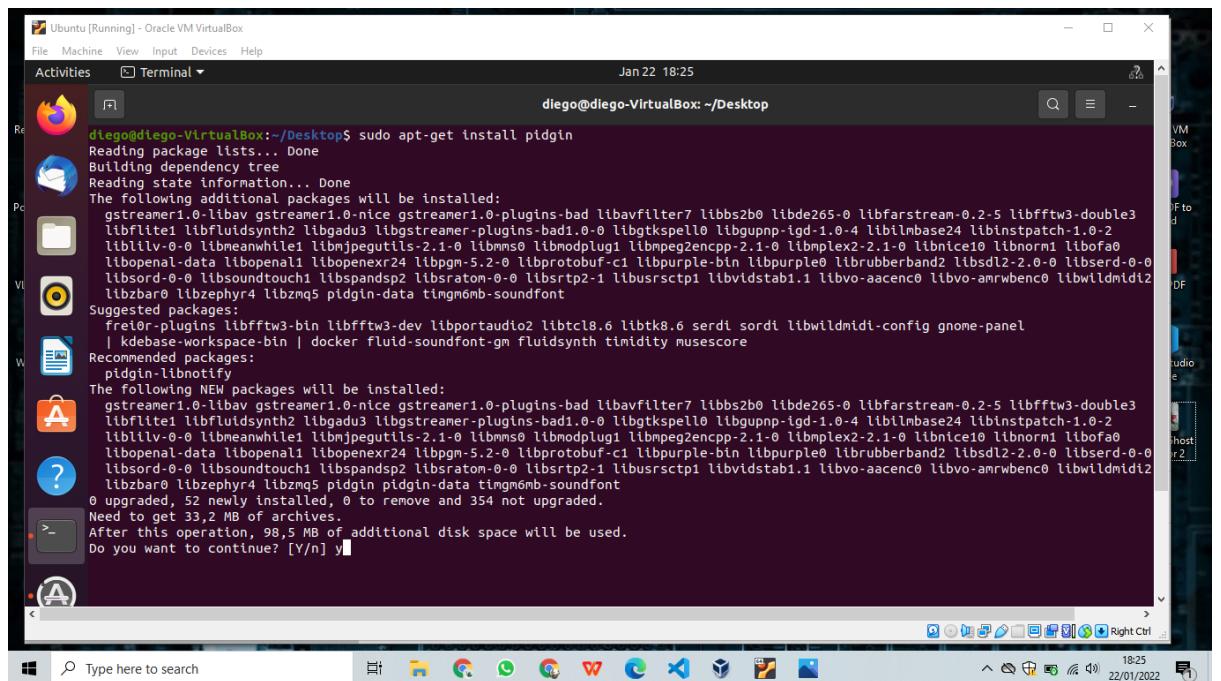
c. Instal aplikasi VCL

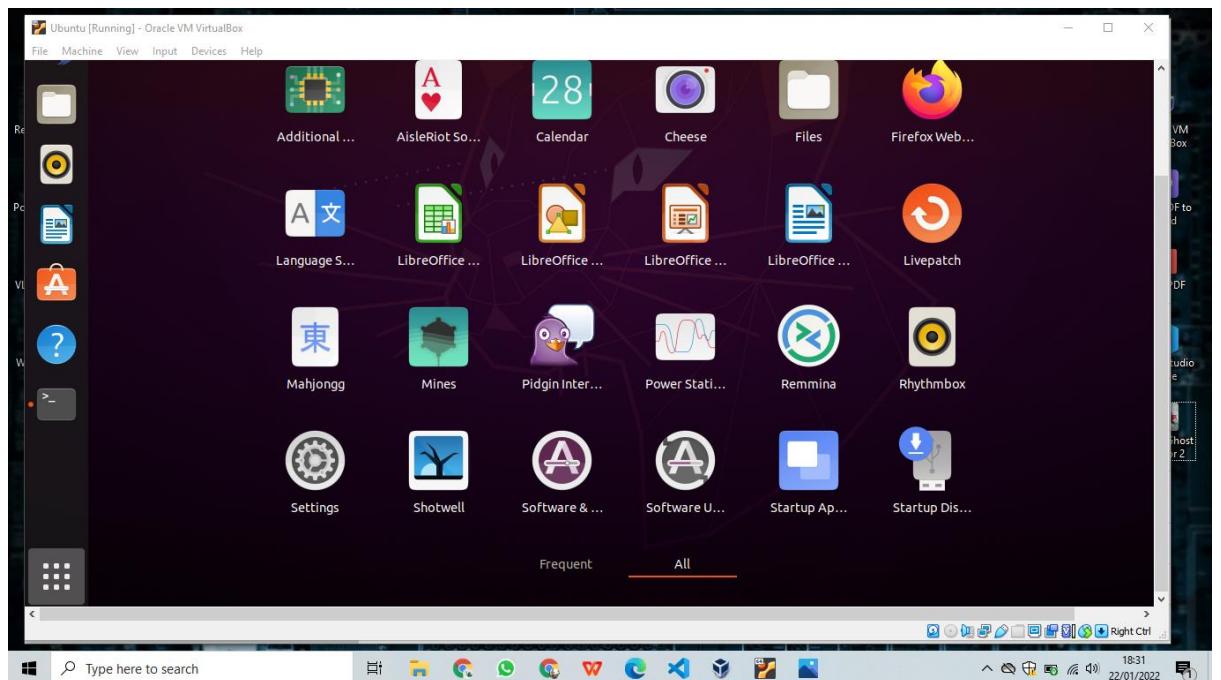
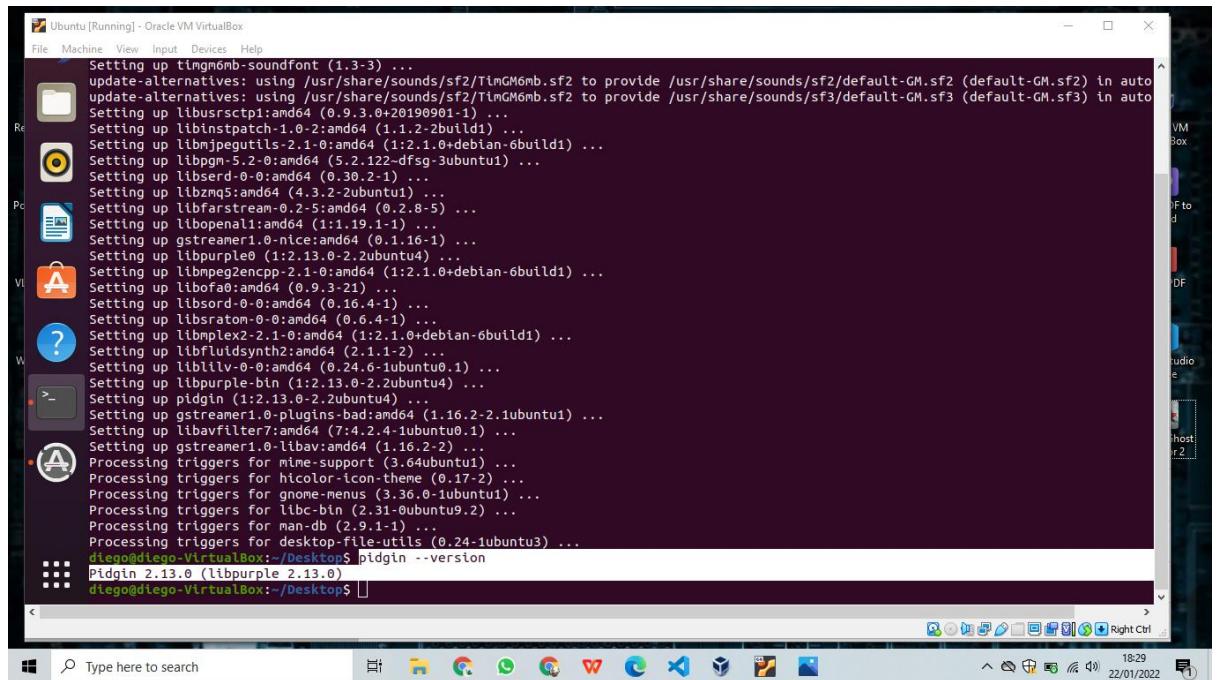




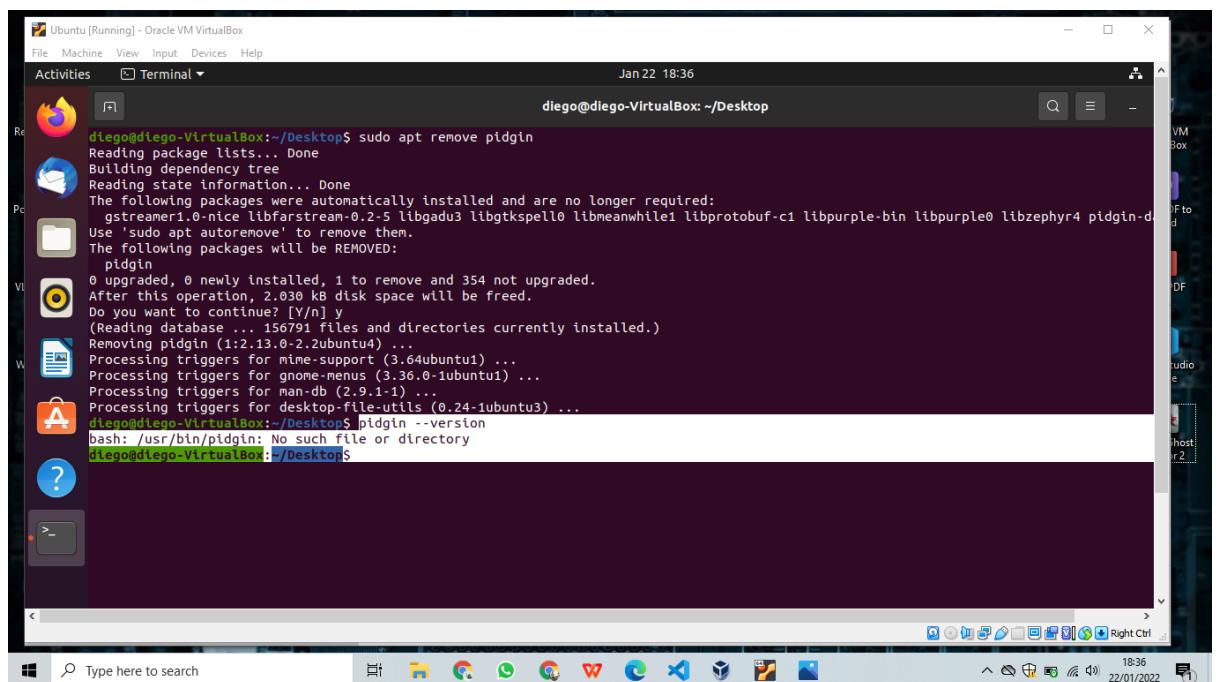
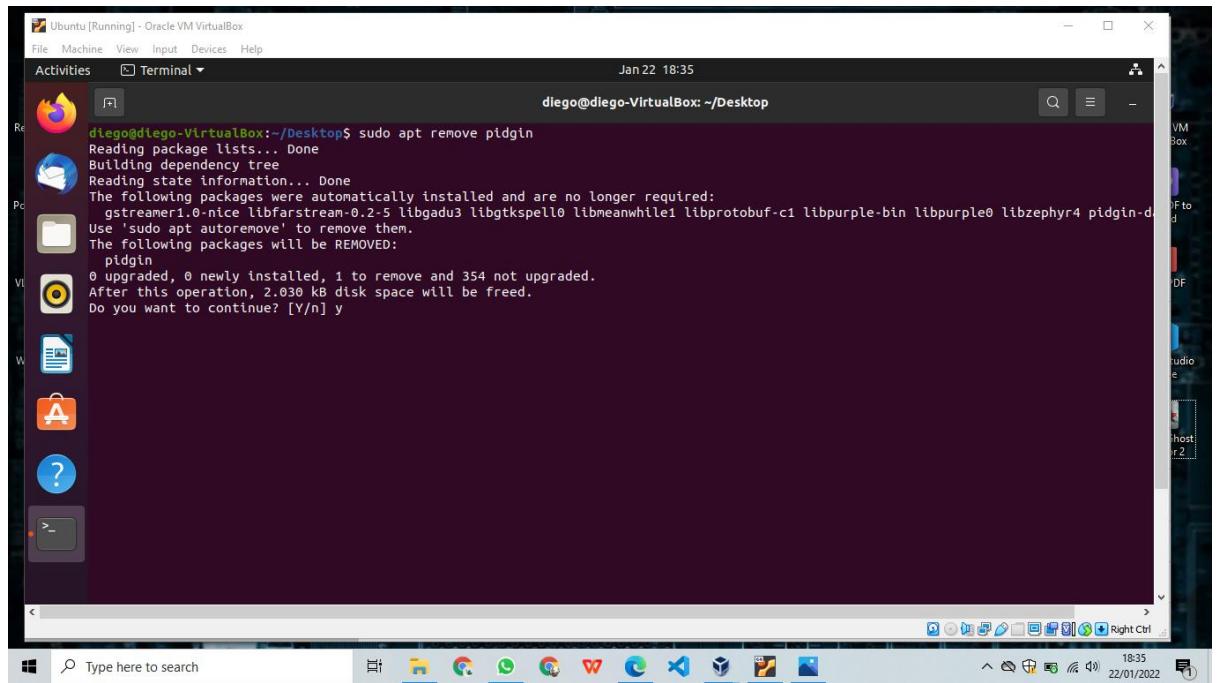


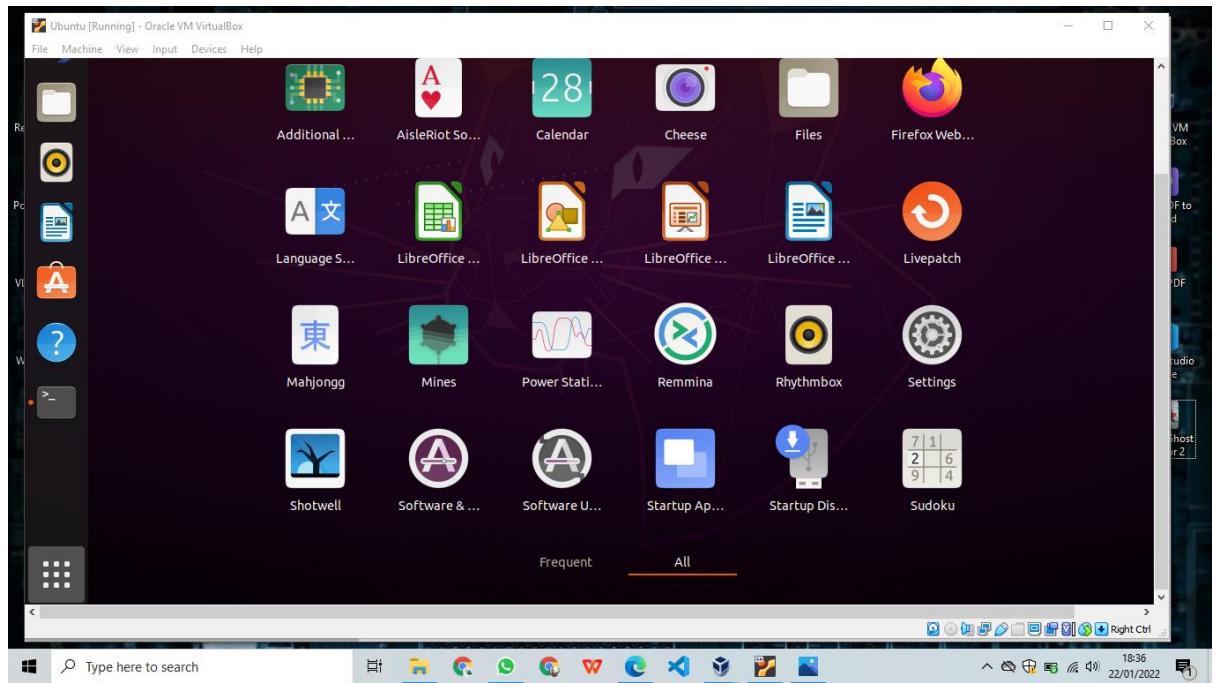
d. Instal aplikasi pidgin





e. Uninstal pidgin



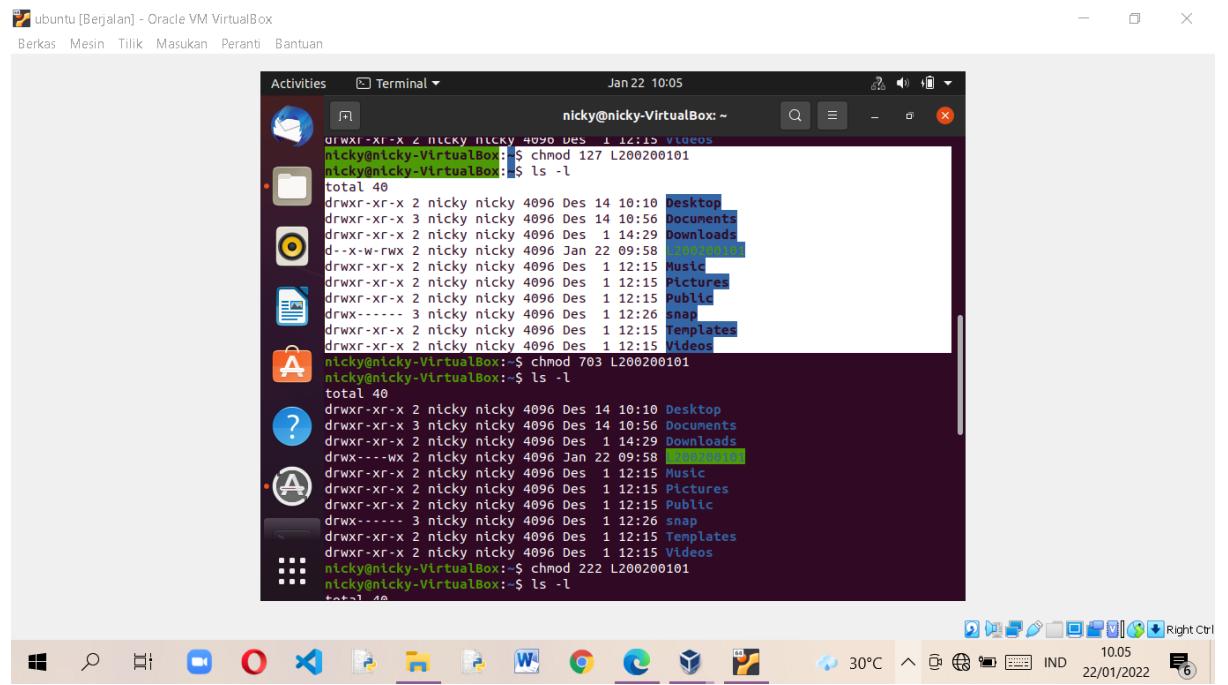
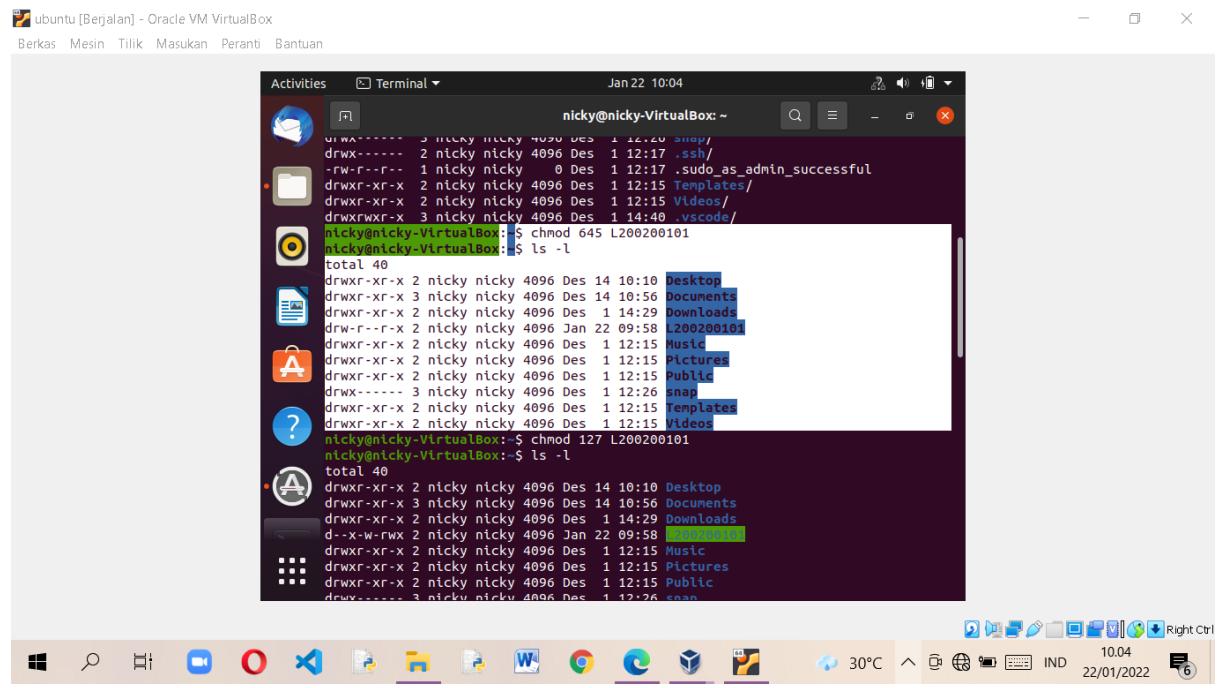


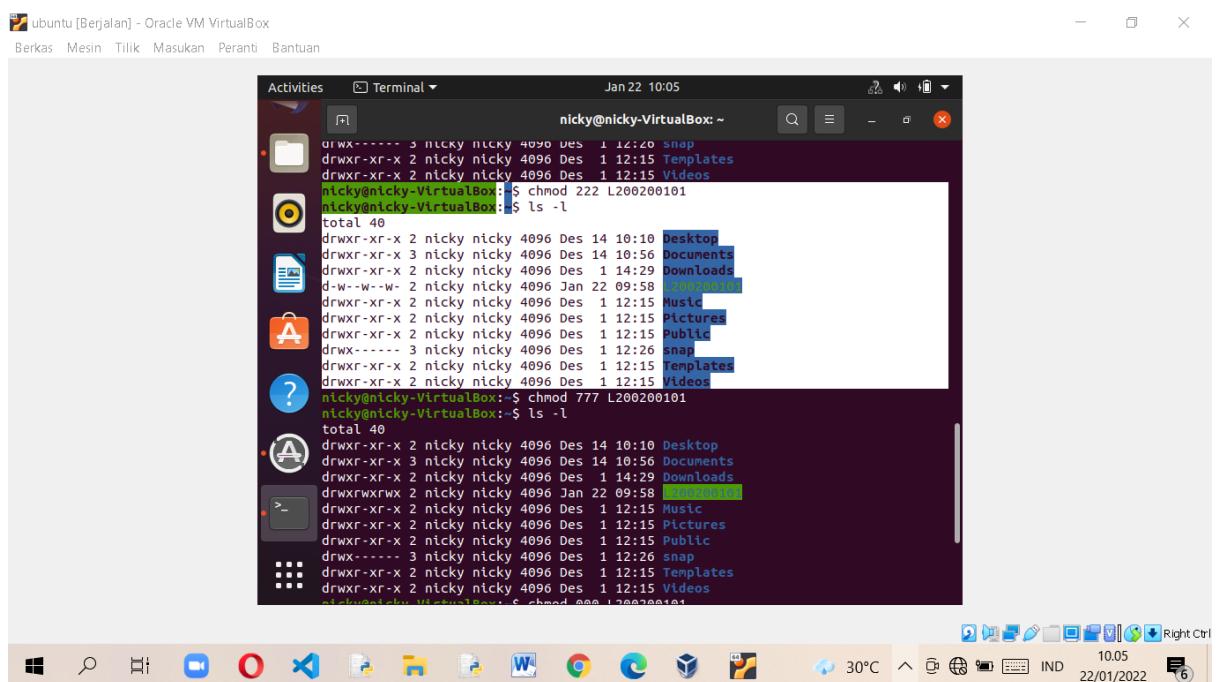
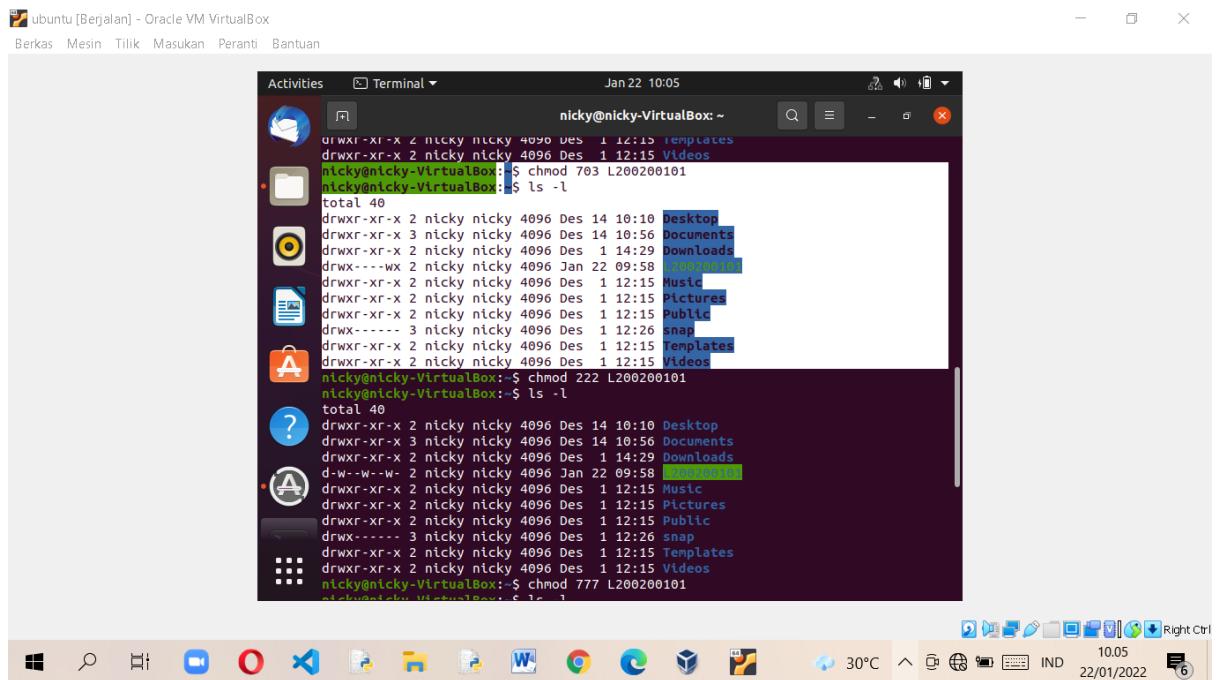
2. Melalui terminal gunakanlah perintah linux

- buatlah folder baru dengan nama “nim anda” dan menampilkan informasi lokasi folder “nim anda” yang telah anda buat.
- Dengan kombinasi angka Berikan permission untuk folder tersebut dengan ketentuan :

```
nicky@nicky-VirtualBox:~$ mkdir L200200101
nicky@nicky-VirtualBox:~$ ll
total 96
drwxr-xr-x 20 nicky nicky 4096 Jan 22 09:58 .
drwxr-xr-x  3 root  root 4096 Des  1 12:06 ..
-rw-----  1 nicky nicky 2417 Jan 22 09:57 .bash_history
-rw-r--r--  1 nicky nicky 220 Des  1 12:06 .bash_logout
-rw-r--r--  1 nicky nicky 3771 Des  1 12:06 .bashrc
drwxr-xr-x 13 nicky nicky 4096 Des 14 09:25 cache/
drwx----- 13 nicky nicky 4096 Des 10 18:42 config/
drwxr-xr-x  2 nicky nicky 4096 Des 14 10:10 Desktop/
drwxr-xr-x  3 nicky nicky 4096 Des 14 10:56 Documents/
drwxr-xr-x  2 nicky nicky 4096 Des  1 14:29 Downloads/
drwx-----  3 nicky nicky 4096 Jan 22 09:11 .gnupg/
drwxrwxr-x  2 nicky nicky 4096 Jan 22 09:58 L200200101/
drwxr-xr-x  3 nicky nicky 4096 Des  1 12:15 .local/
drwx-----  5 nicky nicky 4096 Des  1 14:01 .mozilla/
drwxr-xr-x  2 nicky nicky 4096 Des  1 12:15 Music/
drwxr-xr-x  2 nicky nicky 4096 Des  1 12:15 Pictures/
drwx-----  3 nicky nicky 4096 Des  1 14:40 .pk1/
-rw-r--r--  1 nicky nicky  807 Des  1 12:06 .profile
drwxr-xr-x  2 nicky nicky 4096 Des  1 12:15 Public/
drwx-----  3 nicky nicky 4096 Des  1 12:26 snap/
drwx-----  2 nicky nicky 4096 Des  1 12:17 .ssh/
-rw-r--r--  1 nicky nicky   0 Des  1 12:17 .sudo_as_admin_successful
drwxr-xr-x  2 nicky nicky 4096 Des  1 12:15 Templates/
drwxr-xr-x  2 nicky nicky 4096 Des  1 12:15 Videos/
drwxrwxr-x  3 nicky nicky 4096 Des  1 14:40 .vscode/
nicky@nicky-VirtualBox:~$
```

A screenshot of a terminal window titled "Terminal". The window shows a command-line session where the user has created a new directory named "L200200101" and then listed its contents using the "ll" command. The terminal window is part of the Unity desktop environment, with other windows visible in the background.





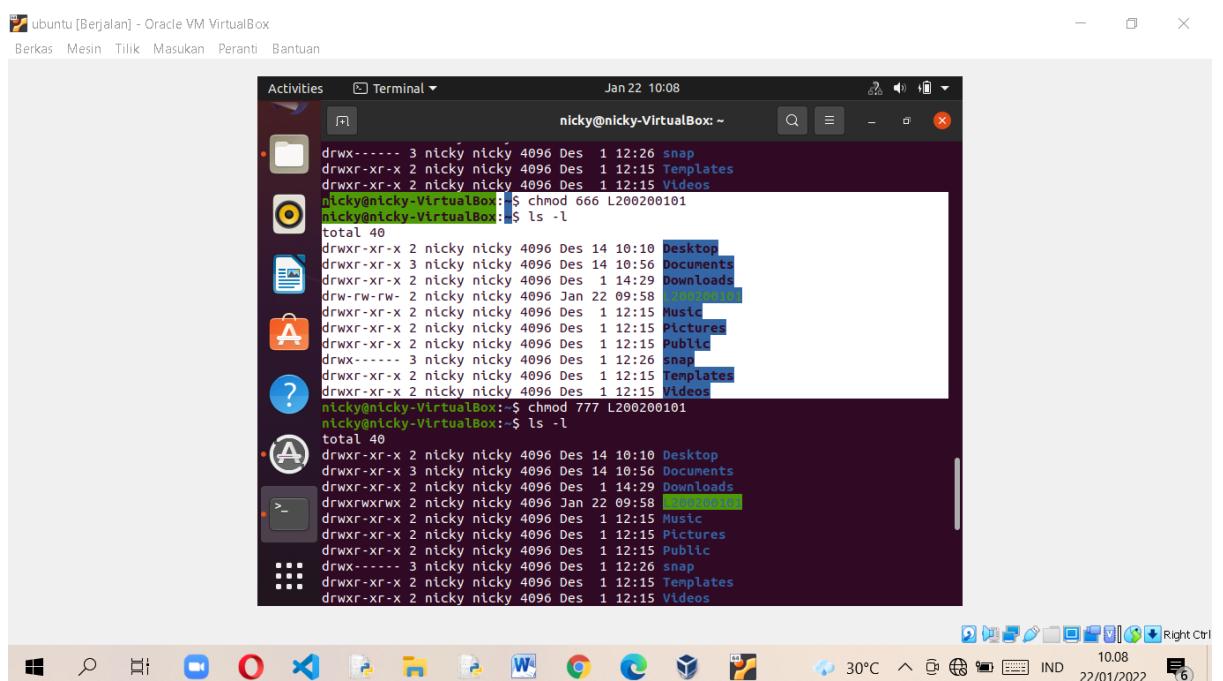
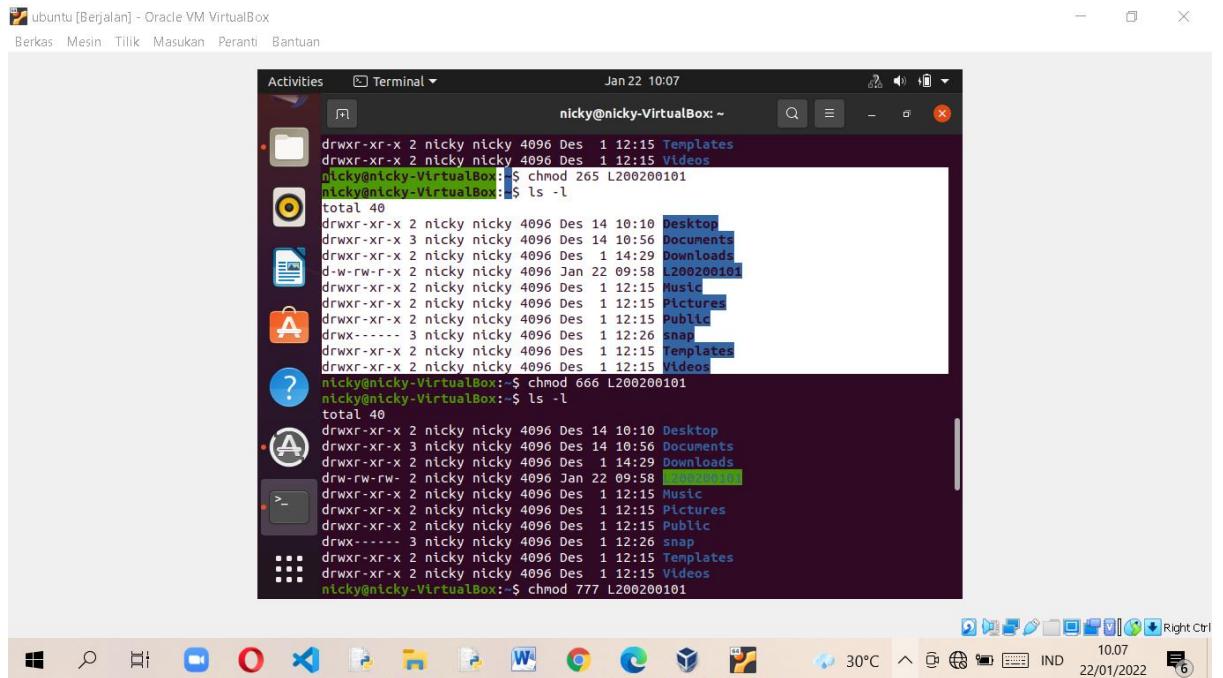
A screenshot of a Linux desktop environment, likely Ubuntu, running in Oracle VM VirtualBox. The terminal window shows the command `chmod 777 L200200101` being run, changing the permission of a file named `L200200101` to 777. The terminal also displays the output of the `ls -l` command, listing various files and their permissions. The desktop bar at the bottom shows various application icons and system status indicators like the date and time.

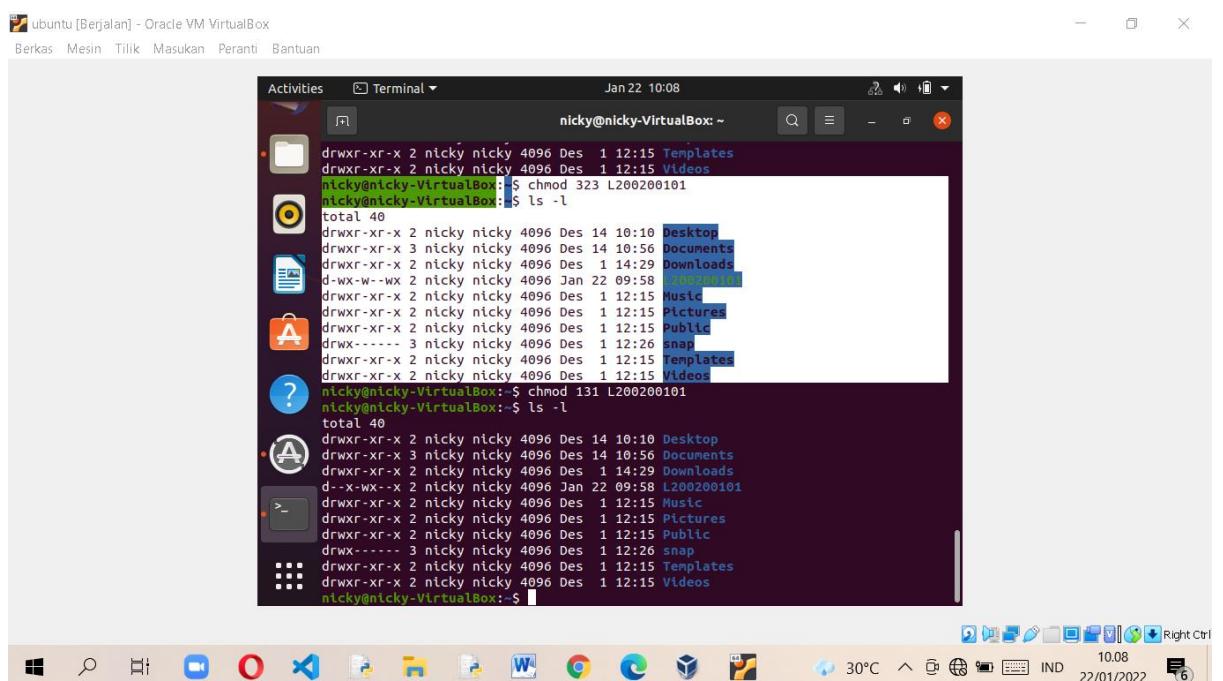
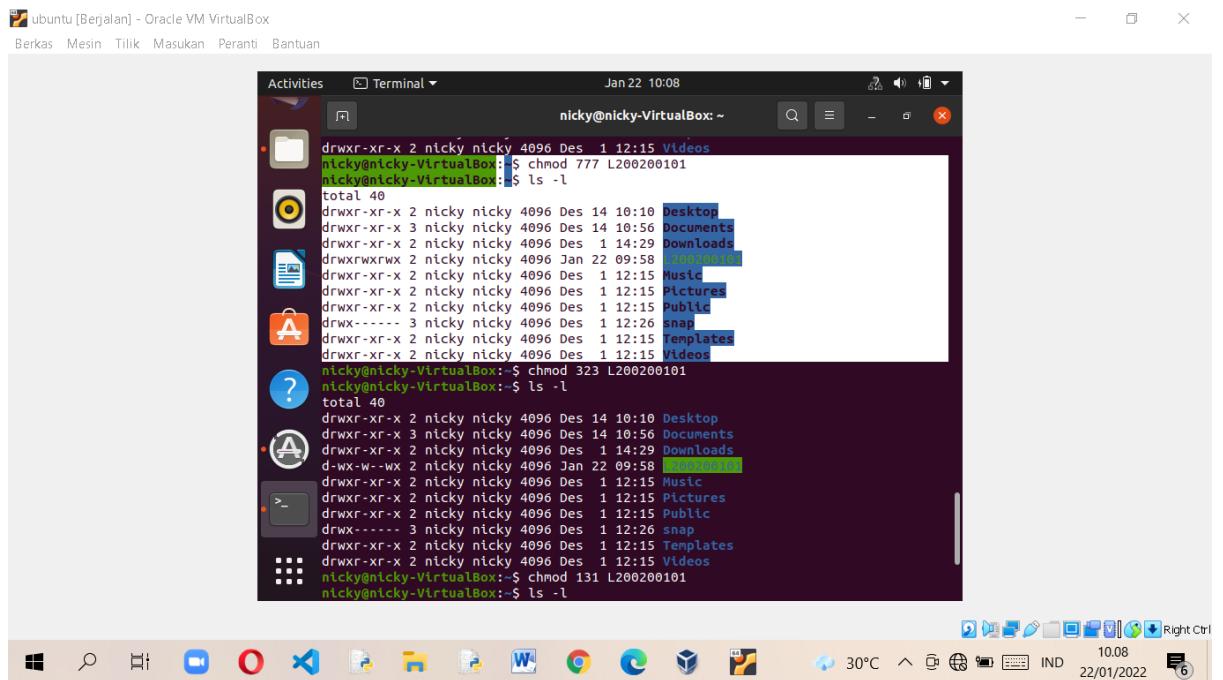
```
nicky@nicky-VirtualBox: ~$ chmod 777 L200200101
nicky@nicky-VirtualBox: ~$ ls -l
total 40
drwxr-xr-x 2 nicky nicky 4096 Des 1 12:15 Templates
drwxr-xr-x 2 nicky nicky 4096 Des 1 12:15 Videos
drwxr-xr-x 2 nicky nicky 4096 Des 1 10:56 Documents
drwxr-xr-x 2 nicky nicky 4096 Des 1 14:29 Downloads
drwxrwxrwx 2 nicky nicky 4096 Jan 22 09:58 L200200101
drwxr-xr-x 2 nicky nicky 4096 Des 1 12:15 Music
drwxr-xr-x 2 nicky nicky 4096 Des 1 12:15 Pictures
drwxr-xr-x 2 nicky nicky 4096 Des 1 12:15 Public
drwx----- 3 nicky nicky 4096 Des 1 12:26 snap
drwxr-xr-x 2 nicky nicky 4096 Des 1 12:15 Templates
drwxr-xr-x 2 nicky nicky 4096 Des 1 12:15 Videos
nicky@nicky-VirtualBox: ~$ chmod 000 L200200101
nicky@nicky-VirtualBox: ~$ ls -l
total 40
drwxr-xr-x 2 nicky nicky 4096 Des 1 10:10 Desktop
drwxr-xr-x 3 nicky nicky 4096 Des 1 10:56 Documents
drwxr-xr-x 2 nicky nicky 4096 Des 1 14:29 Downloads
d----- 2 nicky nicky 4096 Jan 22 09:58 L200200101
drwxr-xr-x 2 nicky nicky 4096 Des 1 12:15 Music
drwxr-xr-x 2 nicky nicky 4096 Des 1 12:15 Pictures
drwxr-xr-x 2 nicky nicky 4096 Des 1 12:15 Public
drwx----- 3 nicky nicky 4096 Des 1 12:26 snap
drwxr-xr-x 2 nicky nicky 4096 Des 1 12:15 Templates
drwxr-xr-x 2 nicky nicky 4096 Des 1 12:15 Videos
nicky@nicky-VirtualBox: ~$
```

- c. Ubah file diatas dengan permission 000 kemudian dengan perintah operand ubah permision menja

A screenshot of a Linux desktop environment, likely Ubuntu, running in Oracle VM VirtualBox. The terminal window shows the command `chmod 000 L200200101` being run, changing the permission of a file named `L200200101` to 000. The terminal also displays the output of the `ls -l` command, listing various files and their permissions. The desktop bar at the bottom shows various application icons and system status indicators like the date and time.

```
nicky@nicky-VirtualBox: ~$ chmod 777 L200200101
nicky@nicky-VirtualBox: ~$ ls -l
total 40
drwxr-xr-x 2 nicky nicky 4096 Des 1 12:15 Templates
drwxr-xr-x 2 nicky nicky 4096 Des 1 12:15 Videos
drwxr-xr-x 2 nicky nicky 4096 Des 1 10:56 Documents
drwxr-xr-x 2 nicky nicky 4096 Des 1 14:29 Downloads
drwxrwxrwx 2 nicky nicky 4096 Jan 22 09:58 L200200101
drwxr-xr-x 2 nicky nicky 4096 Des 1 12:15 Music
drwxr-xr-x 2 nicky nicky 4096 Des 1 12:15 Pictures
drwxr-xr-x 2 nicky nicky 4096 Des 1 12:15 Public
drwx----- 3 nicky nicky 4096 Des 1 12:26 snap
drwxr-xr-x 2 nicky nicky 4096 Des 1 12:15 Templates
drwxr-xr-x 2 nicky nicky 4096 Des 1 12:15 Videos
nicky@nicky-VirtualBox: ~$ chmod 000 L200200101
nicky@nicky-VirtualBox: ~$ ls -l
total 40
drwxr-xr-x 2 nicky nicky 4096 Des 1 10:10 Desktop
drwxr-xr-x 3 nicky nicky 4096 Des 1 10:56 Documents
drwxr-xr-x 2 nicky nicky 4096 Des 1 14:29 Downloads
d----- 2 nicky nicky 4096 Jan 22 09:58 L200200101
drwxr-xr-x 2 nicky nicky 4096 Des 1 12:15 Music
drwxr-xr-x 2 nicky nicky 4096 Des 1 12:15 Pictures
drwxr-xr-x 2 nicky nicky 4096 Des 1 12:15 Public
drwx----- 3 nicky nicky 4096 Des 1 12:26 snap
drwxr-xr-x 2 nicky nicky 4096 Des 1 12:15 Templates
drwxr-xr-x 2 nicky nicky 4096 Des 1 12:15 Videos
nicky@nicky-VirtualBox: ~$
```





ubuntu [Berjalan] - Oracle VM VirtualBox

Berkas Mesin Tilik Masukan Peranti Bantuan

Activities Terminal nicky@nicky-VirtualBox: ~

```
drwxr-xr-x 2 nicky nicky 4096 Des 1 12:15 Templates
drwxr-xr-x 2 nicky nicky 4096 Des 1 12:15 Videos
nicky@nicky-VirtualBox:~$ chmod 323 L200200101
nicky@nicky-VirtualBox:~$ ls -l
total 40
drwxr-xr-x 2 nicky nicky 4096 Des 14 10:10 Desktop
drwxr-xr-x 3 nicky nicky 4096 Des 14 10:56 Documents
drwxr-xr-x 2 nicky nicky 4096 Des 1 14:29 Downloads
d-wx-w--wx 2 nicky nicky 4096 Jan 22 09:58 LocalDisk
drwxr-xr-x 2 nicky nicky 4096 Des 1 12:15 Music
drwxr-xr-x 2 nicky nicky 4096 Des 1 12:15 Pictures
drwxr-xr-x 2 nicky nicky 4096 Des 1 12:15 Public
drwx----- 3 nicky nicky 4096 Des 1 12:26 snap
drwxr-xr-x 2 nicky nicky 4096 Des 1 12:15 Templates
drwxr-xr-x 2 nicky nicky 4096 Des 1 12:15 Videos
nicky@nicky-VirtualBox:~$ chmod 131 L200200101
nicky@nicky-VirtualBox:~$ ls -l
total 40
drwxr-xr-x 2 nicky nicky 4096 Des 14 10:10 Desktop
drwxr-xr-x 3 nicky nicky 4096 Des 14 10:56 Documents
drwxr-xr-x 2 nicky nicky 4096 Des 1 14:29 Downloads
d-wx-w--wx 2 nicky nicky 4096 Jan 22 09:58 LocalDisk
drwxr-xr-x 2 nicky nicky 4096 Des 1 12:15 Music
drwxr-xr-x 2 nicky nicky 4096 Des 1 12:15 Pictures
drwxr-xr-x 2 nicky nicky 4096 Des 1 12:15 Public
drwx----- 3 nicky nicky 4096 Des 1 12:26 snap
drwxr-xr-x 2 nicky nicky 4096 Des 1 12:15 Templates
drwxr-xr-x 2 nicky nicky 4096 Des 1 12:15 Videos
nicky@nicky-VirtualBox:~$
```

Right Ctrl

Windows Search Start Task View Taskbar 30°C 10.08 IND 22/01/2022

3. Dengan menggunakan Bash script ,Buatlah file dengan nama “uas.sh”.

Berikut screen shot tampilan hasilnya setelah file “uas.sh” dieksekusi.

Nama :

Nim :

TTL:

Tanggal:

Alamat:

ubuntu [Berjalan] - Oracle VM VirtualBox

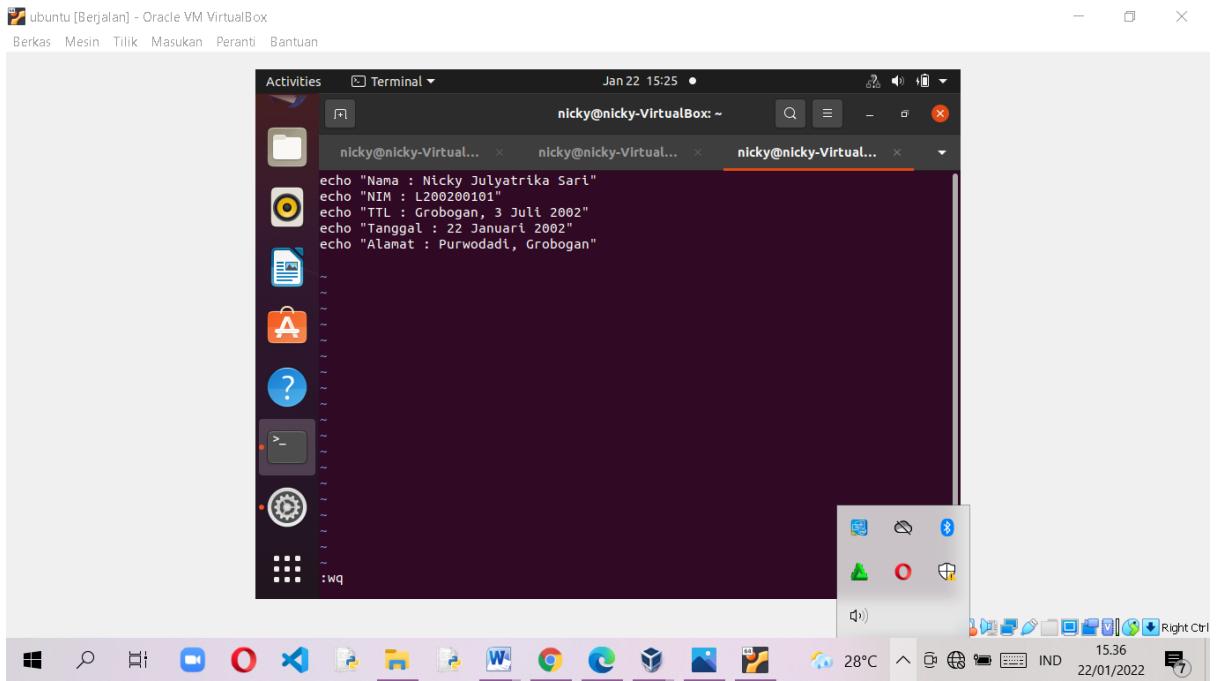
Berkas Mesin Tilik Masukan Peranti Bantuan

Activities Terminal nicky@nicky-Virtual... nicky@nicky-Virtual... nicky@nicky-Virtual...

```
nicky@nicky-VirtualBox:~$ vi uas.sh
```

Right Ctrl

Windows Search Start Task View Taskbar 28°C 15.36 IND 22/01/2022



ubuntu [Berjalan] - Oracle VM VirtualBox

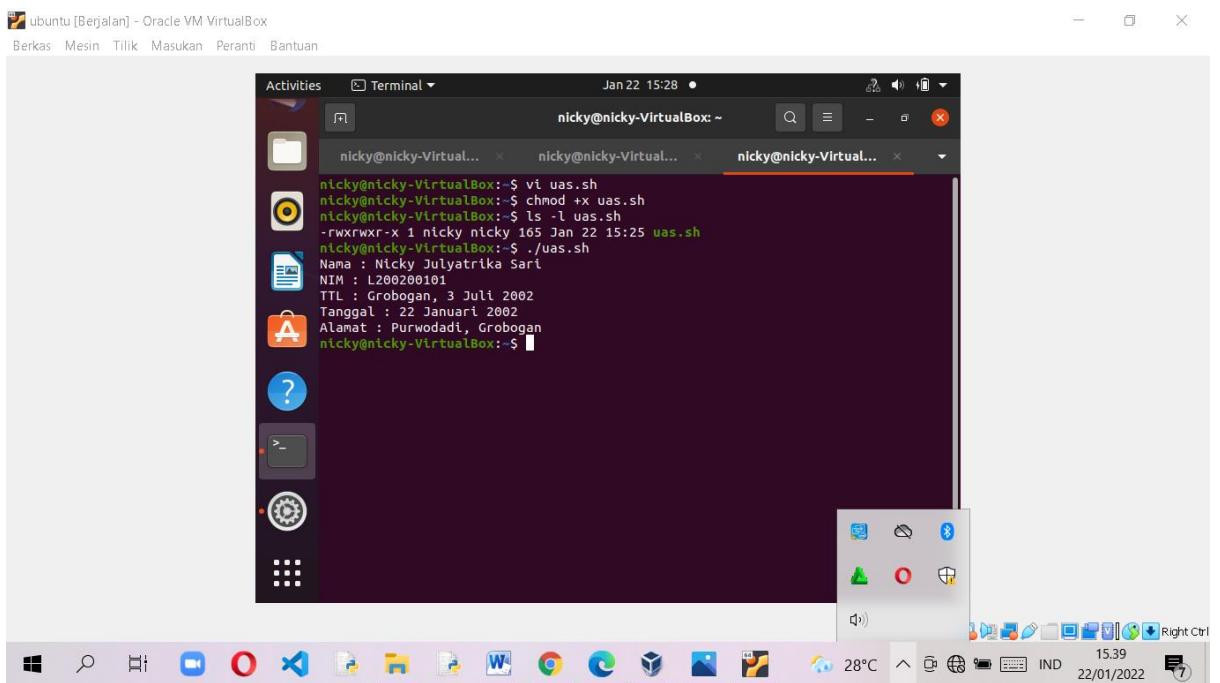
Berkas Mesin Tilik Masukan Peranti Bantuan

Activities Terminal Jan 22 15:25

nicky@nicky-VirtualBox: ~

```
echo "Nama : Nicky Julyatrika Sari"
echo "NIM : L200200101"
echo "TTL : Grobogan, 3 Juli 2002"
echo "Tanggal : 22 Januari 2002"
echo "Alamat : Purwodadi, Grobogan"
```

Right Ctrl



ubuntu [Berjalan] - Oracle VM VirtualBox

Berkas Mesin Tilik Masukan Peranti Bantuan

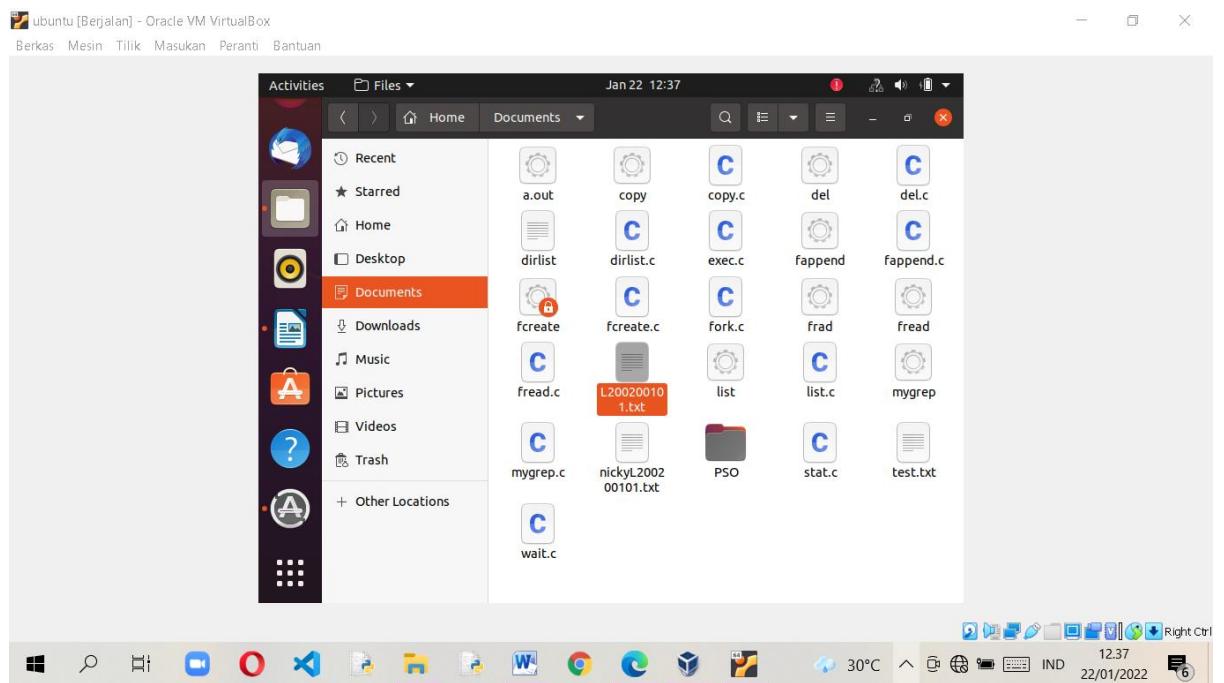
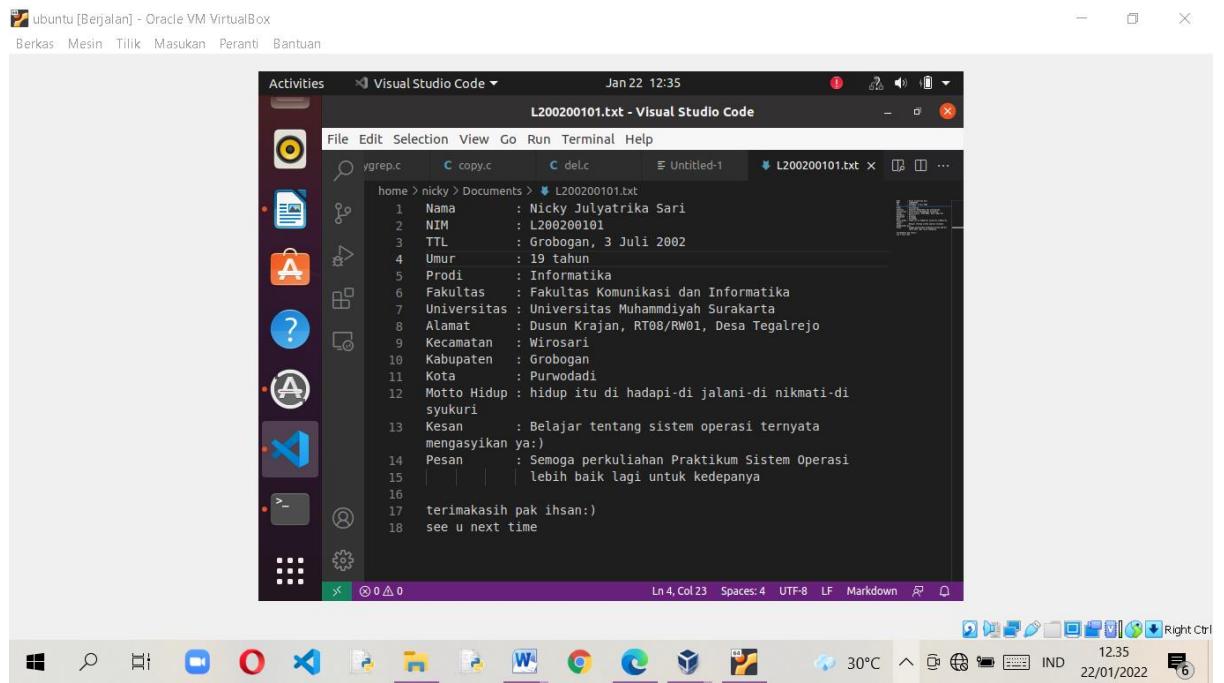
Activities Terminal Jan 22 15:28

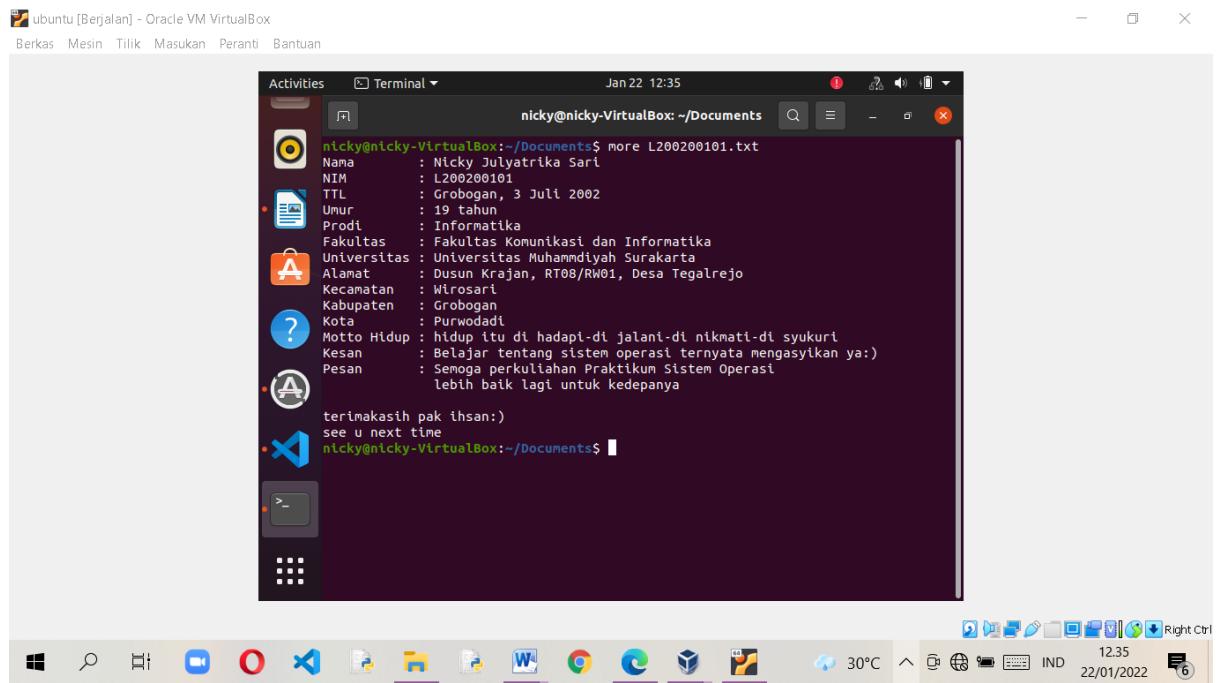
nicky@nicky-VirtualBox: ~

```
nicky@nicky-VirtualBox:~$ vi uas.sh
nicky@nicky-VirtualBox:~$ chmod +x uas.sh
nicky@nicky-VirtualBox:~$ ls -l uas.sh
-rwxrwxr-x 1 nicky nicky 165 Jan 22 15:25 uas.sh
nicky@nicky-VirtualBox:~$ ./uas.sh
Nama : Nicky Julyatrika Sari
NIM : L200200101
TTL : Grobogan, 3 Juli 2002
Tanggal : 22 Januari 2002
Alamat : Purwodadi, Grobogan
nicky@nicky-VirtualBox:~$
```

Right Ctrl

4. Buatlah file .txt (dengan NIM anda) yang berisi identitas diri (15 items baris) , dengan ketentuan tiap kalimat tekan 'en
 - a. Carilah suatu kata kunci dalam file yang anda buat (bebas), kemudian tampilkan hasilnya.

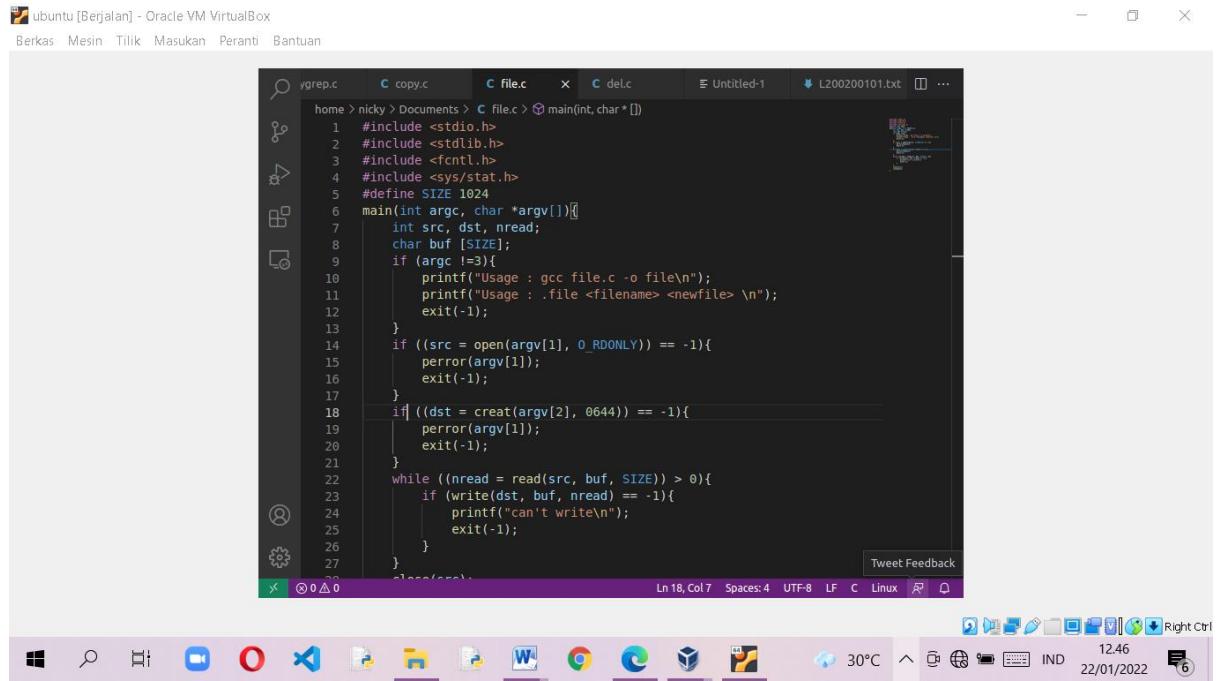




```
nicky@nicky-VirtualBox:~/Documents$ more L200200101.txt
Nama      : Nicky Julyatrika Sari
NIM       : L200200101
TTL       : Grobogan, 3 Juli 2002
Umur     : 19 tahun
Prodi    : Informatika
Fakultas  : Fakultas Komunikasi dan Informatika
Universitas: Universitas Muhammadiyah Surakarta
Alamat   : Dusun Krajan, RT08/RW01, Desa Tegalrejo
Kecamatan: Wirosoji
Kabupaten: Grobogan
Kota     : Purwodadi
Motto Hidup: hidup itu di hadapi-di jalani-di nikmati-di syukuri
Kesan    : Belajar tentang sistem operasi ternyata mengasyikan ya:)
Pesan    : Semoga perkuliahan Praktikum Sistem Operasi
           lebih baik lagi untuk kedepanya

terimakasih pak ihsan:)
see u next time
nicky@nicky-VirtualBox:~/Documents$
```

- b. Buatlah file.c terlebih dahulu, kemudian lakukan copy file NIM.txt anda tadi ke file NAMA.txt



```
home > nicky > Documents > C file.c >  main(int, char *[])
1 #include <stdio.h>
2 #include <stdlib.h>
3 #include <fcntl.h>
4 #include <sys/stat.h>
5 #define SIZE 1024
6 main(int argc, char *argv[]){
7     int src, dst, nread;
8     char buf [SIZE];
9     if (argc !=3){
10         printf("Usage : gcc file.c -o file\n");
11         printf("Usage : .file <filename> <newfile> \n");
12         exit(-1);
13     }
14     if ((src = open(argv[1], O_RDONLY)) == -1){
15         perror(argv[1]);
16         exit(-1);
17     }
18     if ((dst = creat(argv[2], 0644)) == -1){
19         perror(argv[1]);
20         exit(-1);
21     }
22     while ((nread = read(src, buf, SIZE)) > 0){
23         if (write(dst, buf, nread) == -1){
24             printf("can't write\n");
25             exit(-1);
26         }
27     }
close(</dev>).
```

ubuntu [Berjalan] - Oracle VM VirtualBox

Berkas Mesin Tilik Masukan Peranti Bantuan

vgrep.c C copy.c C file.c X C del.c Untitled-1 L200200101.txt ...

```
home > nicky > Documents > C file.c > main(int, char **)
25     exit(-1);
26 }
27 }
28 close(src);
29 close(dst);
30 }
```

No Notifications

Ln 15, Col 25 Spaces: 4 UTF-8 LF C Linux

Right Ctrl

ubuntu [Berjalan] - Oracle VM VirtualBox

Berkas Mesin Tilik Masukan Peranti Bantuan

Activities Terminal Jan 22 12:47

```
nicky@nicky-VirtualBox: ~/Documents
```

```
nicky@nicky-VirtualBox:~/Documents$ gcc -o file file.c
file.c:6:1: warning: return type defaults to 'int' [-Wimplicit-int]
6 | main(int argc, char *argv[]){
   |
file.c: In function 'main':
file.c:22:21: warning: implicit declaration of function 'read'; did you mean 'fread'? [-Wimplicit-function-declaration]
22 |     while ((nread = read(src, buf, SIZE)) > 0){
           ^
           fread
file.c:23:13: warning: implicit declaration of function 'write'; did you mean 'fwrite'? [-Wimplicit-function-declaration]
23 |         if (fwrite(dst, buf, nread) == -1){
           ^
           fwrite
file.c:28:5: warning: implicit declaration of function 'close'; did you mean 'pclose'? [-Wimplicit-function-declaration]
28 |     close(src);
           ^
           pclose
nicky@nicky-VirtualBox:~/Documents$ ./file L200200101.txt Nicky.txt
nicky@nicky-VirtualBox:~/Documents$
```

Right Ctrl

