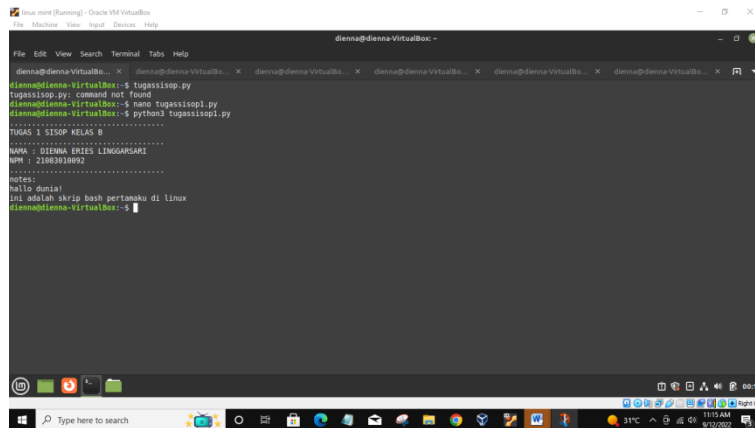


LAPORAN TUGAS SISTEM OPERASI 1

21083010092 DIENNA ERIES LINGGARSARI

SISTEM OPERASI B



```
dienna@dienna-VirtualBox:~$ python3 tugassisop.py
tugassisop.py: command not found
dienna@dienna-VirtualBox:~$ nano tugassisop1.py
dienna@dienna-VirtualBox:~$ python3 tugassisop1.py
=====
TUGAS 1 SISOP KELAS B
=====
MENU :
1. DIENNA ERIES LINGGARSARI
2. 21083010092
=====
NOTES:
halo dunia!
ini adalah skrip bash pertama di Linux
dienna@dienna-VirtualBox:~$
```

Pada tugas kali ini saya membuat script python di linux menggunakan python3. Dimana kita

1. Pwd

```
dienna@dienna-VirtualBox:~$ pwd
/home/dienna
dienna@dienna-VirtualBox:~$
```

Merupakan singkatan dari parent working directory. Dimana saat saya menjalankan ini akan menghasilkan directory yang saya gunakan

2. Ls

```
dienna@dienna-VirtualBox:~$ ls
belajarbasisdasar  Downloads  Pictures  tugas
belajarbasisdata   Music      Public    tugassisop.py
'cat trial.py'     nano.2486.save  sisop     tugassisop
Desktop            nano.2815.save  Templates tugassisop1.py
Documents          pertama       trial.py.save  Videos
```

Ls digunakan untuk melihat isi di dalam directory

```

dienna@dienna-VirtualBox:~$ ls -l
total 80
drwxrwxr-x 2 dienna dienna 4096 Sep  7 20:32 belajarbasisdasa
drwxrwxr-x 2 dienna dienna 4096 Sep  7 00:29 belajarbasisdata
-rw-rw-r-- 1 dienna dienna  23 Sep  6 23:22 'cat trial.py'
drwxr-xr-x 2 dienna dienna 4096 Sep  6 02:43 Desktop
drwxr-xr-x 2 dienna dienna 4096 Sep  6 02:43 Documents
drwxr-xr-x 2 dienna dienna 4096 Sep  6 02:43 Downloads
drwxr-xr-x 2 dienna dienna 4096 Sep  6 02:43 Music
-rw----- 1 dienna dienna  84 Sep 10 02:08 nano.2486.save
-rw----- 1 dienna dienna  400 Sep 10 03:50 nano.2815.save
drwxrwxr-x 2 dienna dienna 4096 Sep  7 00:12 pertama
drwxr-xr-x 2 dienna dienna 4096 Sep  6 02:43 Pictures
drwxr-xr-x 2 dienna dienna 4096 Sep  6 02:43 Public
drwxrwxr-x 2 dienna dienna 4096 Sep  7 00:12 sisop
drwxr-xr-x 2 dienna dienna 4096 Sep  6 02:43 Templates
-rw----- 1 dienna dienna   1 Sep 10 02:15 trial.py.save
drwxrwxr-x 2 dienna dienna 4096 Sep  6 23:26 tugas
-rw-rw-r-- 1 dienna dienna  398 Sep 10 03:50 tugaslsisop.py
drwxrwxr-x 2 dienna dienna 4096 Sep  7 00:13 tugassisop
-rw-rw-r-- 1 dienna dienna  333 Sep 10 03:56 tugassisop1.py
drwxr-xr-x 2 dienna dienna 4096 Sep  6 02:43 Videos

```

3. cd

```

dienna@dienna-VirtualBox:~$ cd android
bash: cd: android: No such file or directory

```

Cd adalah singkatan dari change directory, perintah ini digunakan untuk mengubah suatu directory ke directory yang lain

4. cat

```

dienna@dienna-VirtualBox:~$ ls
belajarbasisdasar  'cat trial.py'  Documents  Music  nano.2815.save  Pictures  sisop  trial.py.save  tugaslsisop.py  tugassisop1.py
belajarbasisdata  Desktop  Downloads  nano.2486.save  pertama  Public  Templates  tugas  tugassisop  Videos
dienna@dienna-VirtualBox:~$ cat py.txt
cat: py.txt: No such file or directory

```

Suatu perintah yang digunakan untuk melihat isi dalam berkas

5. nano

```

dienna@dienna-VirtualBox:~$ nano tugassisop1

```

Teks editor yang sangat terbatas

6. mkdir

```
dienna@dienna-VirtualBox:~$ ls
belajarbasisdasar  'cat trial.py'  Documents  Music  nano.2486.save  nano.2815.save  Pictures  sisop  trial.py.save  tugas1sisop.py  tugassisop1.py
belajarbasisdata   Desktop         Downloads  nano.2486.save  pertama        Public  Templates  tugas  tugas1sisop.py  tugassisop    Videos
dienna@dienna-VirtualBox:~$ mkdir 'BASH 101'
dienna@dienna-VirtualBox:~$ ls
'BASH 101'  belajarbasisdata  Desktop  Downloads  nano.2486.save  pertama  Public  Templates  tugas  tugas1sisop.py  tugassisop  tugassisop1.py  Videos
belajarbasisdasar  'cat trial.py'  Documents  Music  nano.2815.save  Pictures  sisop  trial.py.save  tugas1sisop.py  tugassisop1.py
```

Digunakan untuk membuat directory baru

7. rm

```
dienna@dienna-VirtualBox:~$ ls
'BASH 101'  belajarbasisdata  Desktop  Downloads  nano.2486.save  pertama  Public  Templates  tugas  tugassisop  Videos
belajarbasisdasar  'cat trial.py'  Documents  Music  nano.2815.save  Pictures  sisop  trial.py.save  tugas1sisop.py  tugassisop1.py
dienna@dienna-VirtualBox:~$ rm -i 'HAPUS AKU.txt'
v
v
v  ls
v
```

Perintah untuk menghapus berkas

8. rmdir

```
dienna@dienna-VirtualBox:~$ ls
'BASH 101'  belajarbasisdata  Desktop  Downloads  nano.2486.save  pertama  Public  Templates  tugas  tugassisop  Videos
belajarbasisdasar  'cat trial.py'  Documents  Music  nano.2815.save  Pictures  sisop  trial.py.save  tugas1sisop.py  tugassisop1.py
dienna@dienna-VirtualBox:~$ rm -i 'HAPUS AKU.txt'
v
v
v  ls
v
```

Perintah untuk menghapus directory

9. mv

```
dienna@dienna-VirtualBox:~$ ls
belajarbasisdasar  'cat trial.py'  Documents  Music  nano.2815.save  pertama  Pictures  sisop  trial.py.save  tugas1sisop.py  tugassisop1.py
belajarbasisdata   Desktop         Downloads  nano.2486.save  Public  Templates  tugas  tugas1sisop.py  tugassisop    Videos
dienna@dienna-VirtualBox:~$ mv iris.csv.music
mv: missing destination file operand after 'iris.csv.music'
Try 'mv --help' for more information.
dienna@dienna-VirtualBox:~$ ls
belajarbasisdasar  'cat trial.py'  Documents  Music  nano.2815.save  pertama  Pictures  sisop  trial.py.save  tugas1sisop.py  tugassisop1.py
belajarbasisdata   Desktop         Downloads  nano.2486.save  Public  Templates  tugas  tugas1sisop.py  tugassisop    Videos
dienna@dienna-VirtualBox:~$ cd musik
bash: cd: musik: No such file or directory
dienna@dienna-VirtualBox:~$ ls
belajarbasisdasar  'cat trial.py'  Documents  Music  nano.2815.save  pertama  Pictures  sisop  trial.py.save  tugas1sisop.py  tugassisop1.py
belajarbasisdata   Desktop         Downloads  nano.2486.save  Public  Templates  tugas  tugas1sisop.py  tugassisop    Videos
dienna@dienna-VirtualBox:~$
```

Di gunakan untuk memindahkan berkas

10. cp

```
dienna@dienna-VirtualBox:~$ ls
belajarbasisdasar  'cat trial.py'  Documents  Music  nano.2015.save  nano.2015.save  Pictures  sisop  trial.py.save  tugaslsisop.py  tugassissop1.py
belajarbasisdata   Desktop         Downloads  nano.2486.save pertama      Public    Templates  tugas  tugassissop  Videos
dienna@dienna-VirtualBox:~$ cp iris.csv Music
cp: cannot stat 'iris.csv': No such file or directory
dienna@dienna-VirtualBox:~$ ls
belajarbasisdasar  'cat trial.py'  Documents  Music  nano.2015.save  nano.2015.save  Pictures  sisop  trial.py.save  tugaslsisop.py  tugassissop1.py
belajarbasisdata   Desktop         Downloads  nano.2486.save pertama      Public    Templates  tugas  tugassissop  Videos
dienna@dienna-VirtualBox:~$ cd Music
dienna@dienna-VirtualBox:~/Music$ ls
dienna@dienna-VirtualBox:~/Music$
```

Digunakan untuk meng copy paste suatu berkas

11. df

```
dienna@dienna-VirtualBox:~/Music$ df
Filesystem      1K-blocks    Used Available Use% Mounted on
tmpfs            99432      1168    98264    2% /run
/dev/sda3       98332924  9324968  83966756  10% /
tmpfs           497144        0   497144    0% /dev/shm
tmpfs            5120         4     5116    1% /run/lock
/dev/sda2       524252     5364   518888    2% /boot/efi
tmpfs           99428      124    99304    1% /run/user/1000
/dev/sr0        62308     62308        0 100% /media/dienna/VBox_GAs_6.1.36
dienna@dienna-VirtualBox:~/Music$
```

Df digunakan untuk melihat sisa ruangan yang tersisa dari termount

12. Top

```
top - 22:59:10 up 7:55, 1 user, load average: 0.93, 0.58, 0.50
Tasks: 195 total, 1 running, 194 sleeping, 0 stopped, 0 zombie
%Cpu(s): 11.1 us, 1.5 sy, 0.0 ni, 87.5 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
MiB Mem: 971.0 total, 295.6 free, 370.0 used, 305.4 buff/cache
MiB Swap: 2048.0 total, 1692.7 free, 355.3 used, 430.0 avail Mem

  PID USER      PR  NI   VIRT    RES    SHR   S  %CPU  %MEM    TIME+  COMMAND
 1562 dienna   20   0 4091732 108612 48368 S  14.9  10.9  40:52.63 cinnamon
  992 root      20   0 360660 52604 25044 S   4.3   5.3   9:52.28 Xorg
 1881 dienna   20   0 563696 32472 23048 S   2.0   3.3   4:01.57 gnome-terminal-
 4109 dienna   20   0 13540 3688 2824 R   1.3   0.4   1:08.50 top
 1160 dienna   20   0 153568 708 708 S   0.3   0.1   1:13.61 VBoxClient
 4154 dienna   20   0 10472 2360 2132 S   0.3   0.2   0:04.92 ping
 4771 root       20   0 0 0 0 I   0.3   0.0   0:00.21 kworker/0:2-events
    1 root     20   0 166244 7340 5020 S   0.0   0.7   0:04.06 systemd
    2 root     20   0 0 0 0 S   0.0   0.0   0:00.02 kthreadd
    3 root     0 -20 0 0 0 I   0.0   0.0   0:00.00 rcu_gp
    4 root     0 -20 0 0 0 I   0.0   0.0   0:00.00 rcu_par_gp
    5 root     0 -20 0 0 0 I   0.0   0.0   0:00.00 netns
    7 root     0 -20 0 0 0 I   0.0   0.0   0:00.00 kworker/0:0H-events_highpri
   10 root     0 -20 0 0 0 I   0.0   0.0   0:00.00 mm_percpu_wq
   11 root     20   0 0 0 0 S   0.0   0.0   0:00.00 rcu_tasks_rude_
   12 root     20   0 0 0 0 S   0.0   0.0   0:00.00 rcu_tasks_trace
   13 root     20   0 0 0 0 S   0.0   0.0   0:00.59 ksoftirqd/0
   14 root     20   0 0 0 0 I   0.0   0.0   0:04.25 rcu_sched
   15 root     rt   0 0 0 0 S   0.0   0.0   0:00.25 migration/0
   16 root    -51  0 0 0 0 S   0.0   0.0   0:00.00 idle inject/0
   17 root     20   0 0 0 0 S   0.0   0.0   0:00.00 cpuhp/0
   18 root     20   0 0 0 0 S   0.0   0.0   0:00.00 cpuhp/1
   19 root    -51  0 0 0 0 S   0.0   0.0   0:00.00 idle inject/1
   20 root     rt   0 0 0 0 S   0.0   0.0   0:00.65 migration/1
```

Menunjukkan informasi tentang proses yang sedang dikerjakan oleh kernel linux

13. free

```
dienna@dienna-VirtualBox:~$ free
              total        used        free      shared  buff/cache   available
Mem:           994292      415784        132860         20080         445648         418148
Swap:          2097148       322908       1774240

dienna@dienna-VirtualBox:~$ free -m
              total        used        free      shared  buff/cache   available
Mem:             970         406         129          19          435          408
Swap:            2047         315        1732

dienna@dienna-VirtualBox:~$ free -g
              total        used        free      shared  buff/cache   available
Mem:              0           0           0           0           0           0
Swap:              1           0           1
```

Digunakan untuk mengetahui ram yang telah terpakai atau tidak

14. python

```
dienna@dienna-VirtualBox:~$ python
Command 'python' not found, did you mean:
  command 'python3' from deb python3
  command 'python' from deb python-is-python3
dienna@dienna-VirtualBox:~$ python3
Python 3.10.4 (main, Jun 29 2022, 12:14:53) [GCC 11.2.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> print ("hello word")
hello word
>>>
```

Digunakan untuk menjalankan program di python

15. version

```
dienna@dienna-VirtualBox:~$ nodejs - -version
Command 'nodejs' not found, but can be installed with:
sudo apt install nodejs
dienna@dienna-VirtualBox:~$ code - -version
Command 'code' not found, did you mean:
  command 'tcode' from deb emboss (6.6.0+dfsg-11ubuntu1)
  command 'node' from deb nodejs (12.22.9~dfsg-1ubuntu3)
  command 'cdde' from deb cdde (0.3.1-1build1)
  command 'ode' from deb plotutils (2.6-11)
  command 'cde' from deb cde (0.1+git9-g551e54d-1.2)
Try: sudo apt install <deb name>
```

Digunakan untuk mendeteksi versi pada perangkat lunak

16. where is

```
dienna@dienna-VirtualBox:~$ where firefox
where: command not found
dienna@dienna-VirtualBox:~$ whereis cuda
cuda:
```

Mengetahui letak suatu berkas perangkat lunak

17. which

```
dienna@dienna-VirtualBox:~$ which python3
/usr/bin/python3
dienna@dienna-VirtualBox:~$ which pip3
dienna@dienna-VirtualBox:~$ which firefox
/usr/bin/firefox
```

Digunakan sebagai directory utama saat mencari berkas di dalam perangkat lunak

18. what is

```
dienna@dienna-VirtualBox:~$ whatis nodejs
nodejs: nothing appropriate.
dienna@dienna-VirtualBox:~$ what is python3
Command 'what' not found, did you mean:
  command 'jhat' from deb openjdk-8-jdk-headless (8u312-b07-0ubuntu1)
  command 'chat' from deb ppp (2.4.9-1+ubuntu3)
  command 'wham' from deb wham-align (0.1.5-8)
  command 'wcat' from deb sac (1.9b5-3build1)
  command 'phat' from deb phat-utils (1.6-2build2)
Try: sudo apt install <deb name>
```

Digunakan untuk mendapatkan definisi dari sebuah perangkat lunak

19. locate & find

```
dienna@dienna-VirtualBox:~$ find -/ -iname anfis.pdf
find: unknown predicate `-/ '
dienna@dienna-VirtualBox:~$ locate anfis.pdf
```

20. pig

```
dienna@dienna-VirtualBox:~$ ping google.com
PING google.com (142.250.4.138) 56(84) bytes of data.
64 bytes from sm-in-f138.1e100.net (142.250.4.138): icmp_seq=1 ttl=248 time=62.5 ms
64 bytes from sm-in-f138.1e100.net (142.250.4.138): icmp_seq=2 ttl=248 time=52.2 ms
64 bytes from sm-in-f138.1e100.net (142.250.4.138): icmp_seq=3 ttl=248 time=72.5 ms
64 bytes from sm-in-f138.1e100.net (142.250.4.138): icmp_seq=4 ttl=248 time=83.2 ms
64 bytes from sm-in-f138.1e100.net (142.250.4.138): icmp_seq=5 ttl=248 time=51.5 ms
64 bytes from sm-in-f138.1e100.net (142.250.4.138): icmp_seq=6 ttl=248 time=51.7 ms
64 bytes from sm-in-f138.1e100.net (142.250.4.138): icmp_seq=7 ttl=248 time=51.2 ms
64 bytes from sm-in-f138.1e100.net (142.250.4.138): icmp_seq=8 ttl=248 time=51.3 ms
64 bytes from sm-in-f138.1e100.net (142.250.4.138): icmp_seq=9 ttl=248 time=51.3 ms
64 bytes from sm-in-f138.1e100.net (142.250.4.138): icmp_seq=10 ttl=248 time=51.2 ms
64 bytes from sm-in-f138.1e100.net (142.250.4.138): icmp_seq=11 ttl=248 time=53.4 ms
64 bytes from sm-in-f138.1e100.net (142.250.4.138): icmp_seq=12 ttl=248 time=51.6 ms
64 bytes from sm-in-f138.1e100.net (142.250.4.138): icmp_seq=13 ttl=248 time=51.5 ms
64 bytes from sm-in-f138.1e100.net (142.250.4.138): icmp_seq=14 ttl=248 time=51.6 ms
64 bytes from sm-in-f138.1e100.net (142.250.4.138): icmp_seq=15 ttl=248 time=51.6 ms
64 bytes from sm-in-f138.1e100.net (142.250.4.138): icmp_seq=16 ttl=248 time=51.4 ms
64 bytes from sm-in-f138.1e100.net (142.250.4.138): icmp_seq=17 ttl=248 time=52.2 ms
64 bytes from sm-in-f138.1e100.net (142.250.4.138): icmp_seq=18 ttl=248 time=51.4 ms
64 bytes from sm-in-f138.1e100.net (142.250.4.138): icmp_seq=19 ttl=248 time=51.3 ms
64 bytes from sm-in-f138.1e100.net (142.250.4.138): icmp_seq=20 ttl=248 time=51.3 ms
64 bytes from sm-in-f138.1e100.net (142.250.4.138): icmp_seq=21 ttl=248 time=61.6 ms
64 bytes from sm-in-f138.1e100.net (142.250.4.138): icmp_seq=22 ttl=248 time=51.5 ms
64 bytes from sm-in-f138.1e100.net (142.250.4.138): icmp_seq=23 ttl=248 time=51.5 ms
64 bytes from sm-in-f138.1e100.net (142.250.4.138): icmp_seq=24 ttl=248 time=51.2 ms
64 bytes from sm-in-f138.1e100.net (142.250.4.138): icmp_seq=25 ttl=248 time=51.4 ms
64 bytes from sm-in-f138.1e100.net (142.250.4.138): icmp_seq=26 ttl=248 time=54.2 ms
64 bytes from sm-in-f138.1e100.net (142.250.4.138): icmp_seq=27 ttl=248 time=51.3 ms
64 bytes from sm-in-f138.1e100.net (142.250.4.138): icmp_seq=28 ttl=248 time=51.3 ms
64 bytes from sm-in-f138.1e100.net (142.250.4.138): icmp_seq=29 ttl=248 time=51.5 ms
```

Digunakan untuk mengecek koneksi dengan alamat ip