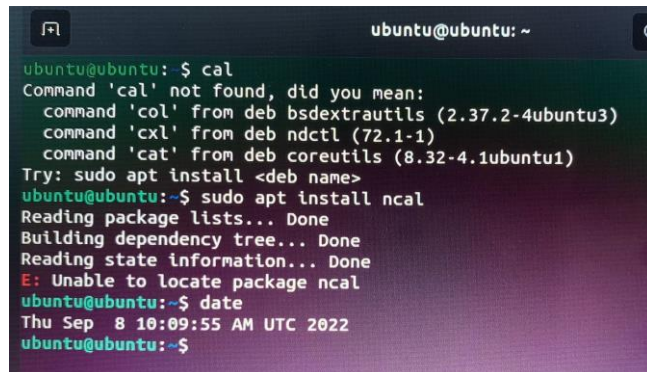


PRACTICE

Linux Basic Command

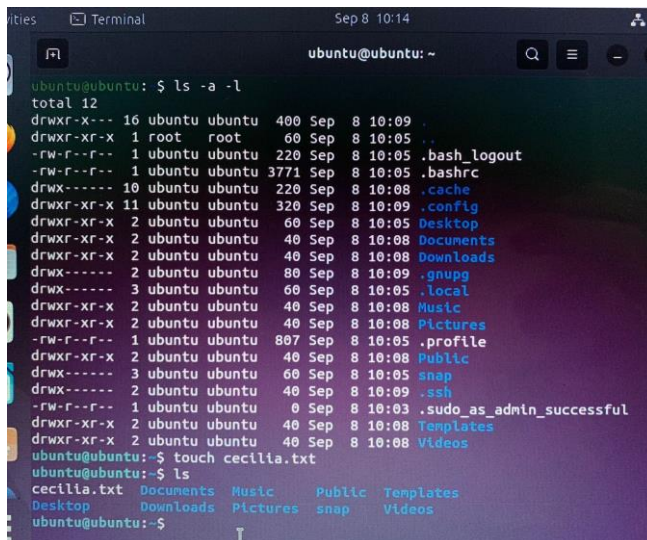
1. Cobalah semua Linux Command yang sudah dijelaskan di materi ini
 - Basic Command



```
ubuntu@ubuntu: ~  
ubuntu@ubuntu:~$ cal  
Command 'cal' not found, did you mean:  
  command 'col' from deb bsdxextrautils (2.37.2-4ubuntu3)  
  command 'cxl' from deb ndctl (72.1-1)  
  command 'cat' from deb coreutils (8.32-4.1ubuntu1)  
Try: sudo apt install <deb name>  
ubuntu@ubuntu:~$ sudo apt install ncal  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
E: Unable to locate package ncal  
ubuntu@ubuntu:~$ date  
Thu Sep  8 10:09:55 AM UTC 2022  
ubuntu@ubuntu:~$
```

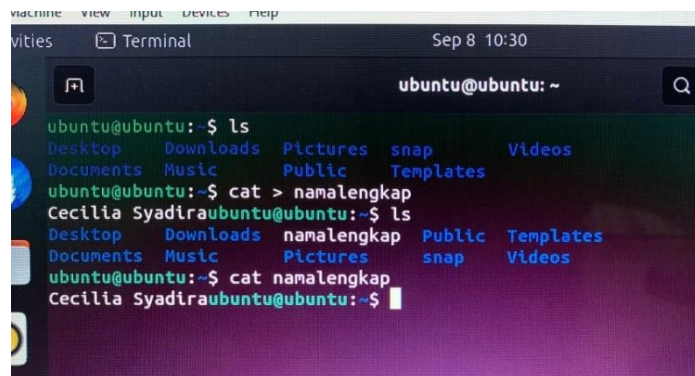
Perintah *cal* dan *date* berfungsi untuk menampilkan kalender dan waktu terkini

- File System Command



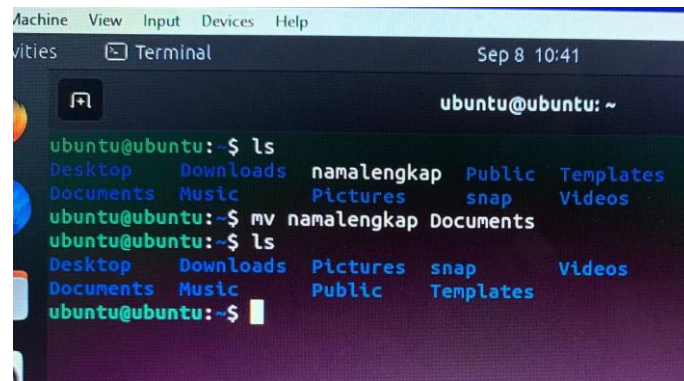
```
ubuntu@ubuntu:~$ ls -a -l  
total 12  
drwxr-xr-x 16 ubuntu ubuntu 400 Sep  8 10:09 .  
drwxr-xr-x  1 root  root    60 Sep  8 10:05 ..  
-rw-r--r--  1 ubuntu ubuntu 220 Sep  8 10:05 .bash_logout  
-rw-r--r--  1 ubuntu ubuntu 3771 Sep  8 10:05 .bashrc  
drwx----- 10 ubuntu ubuntu 220 Sep  8 10:08 .cache  
drwxr-xr-x 11 ubuntu ubuntu 320 Sep  8 10:09 .config  
drwxr-xr-x  2 ubuntu ubuntu 60 Sep  8 10:05 Desktop  
drwxr-xr-x  2 ubuntu ubuntu 40 Sep  8 10:08 Documents  
drwxr-xr-x  2 ubuntu ubuntu 40 Sep  8 10:08 Downloads  
drwx-----  2 ubuntu ubuntu 80 Sep  8 10:09 .gnupg  
drwx-----  3 ubuntu ubuntu 60 Sep  8 10:05 .local  
drwxr-xr-x  2 ubuntu ubuntu 40 Sep  8 10:08 Music  
drwxr-xr-x  2 ubuntu ubuntu 40 Sep  8 10:08 Pictures  
-rw-r--r--  1 ubuntu ubuntu 807 Sep  8 10:05 .profile  
drwxr-xr-x  2 ubuntu ubuntu 40 Sep  8 10:08 Public  
drwx-----  3 ubuntu ubuntu 60 Sep  8 10:05 snap  
drwx-----  2 ubuntu ubuntu 40 Sep  8 10:09 .ssh  
-rw-r--r--  1 ubuntu ubuntu  0 Sep  8 10:03 .sudo_as_admin_successful  
drwxr-xr-x  2 ubuntu ubuntu 40 Sep  8 10:08 Templates  
drwxr-xr-x  2 ubuntu ubuntu 40 Sep  8 10:08 Videos  
ubuntu@ubuntu:~$ touch cecilia.txt  
ubuntu@ubuntu:~$ ls  
cecilia.txt  Desktop  Downloads  Music  Public  Templates  
Documents  Downloads  Pictures  snap  Videos  
ubuntu@ubuntu:~$
```

Perintah *ls* untuk menampilkan direktori yang ada dan *touch* untuk membuat file, contoh : cecilia.txt



```
ubuntu@ubuntu:~$ ls  
Desktop  Downloads  Pictures  snap  Videos  
Documents  Music  Public  Templates  
ubuntu@ubuntu:~$ cat > namalengkap  
Cecilia Syadiraubuntu@ubuntu:~$ ls  
Desktop  Downloads  namalengkap  Public  Templates  
Documents  Music  Pictures  snap  Videos  
ubuntu@ubuntu:~$ cat namalengkap  
Cecilia Syadiraubuntu@ubuntu:~$
```

Perintah *cat > [nama file]* digunakan untuk membuat file sekaligus mengisi kontennya sedangkan *cat* hanya untuk menampilkan konten

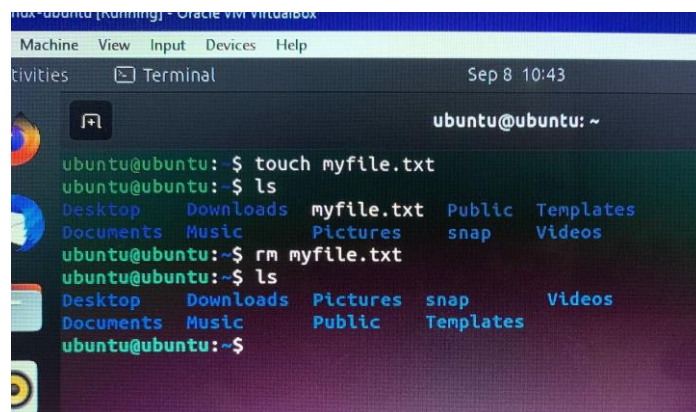
A terminal window titled 'Terminal' with a menu bar (Machine, View, Input, Devices, Help) and a timestamp 'Sep 8 10:41'. The prompt is 'ubuntu@ubuntu: ~'. The user enters 'ls', showing a directory listing with 'namalengkap' among other folders. Then, the user enters 'mv namalengkap Documents'. A second 'ls' command shows 'namalengkap' is no longer in the root directory, but 'Documents' now contains it.

```
ubuntu@ubuntu:~$ ls
Desktop  Downloads  namalengkap  Public  Templates
Documents Music      Pictures     snap    Videos

ubuntu@ubuntu:~$ mv namalengkap Documents
ubuntu@ubuntu:~$ ls
Desktop  Downloads  Pictures  snap    Videos
Documents Music      Public    Templates

ubuntu@ubuntu:~$
```

Perintah *mv* digunakan untuk memindahkan file atau direktori
mv [file/direktori asal] [file/direktori tujuan]

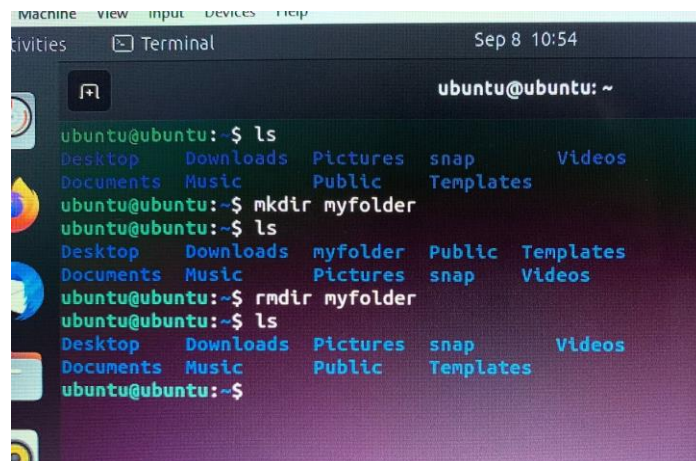
A terminal window titled 'Terminal' with a menu bar (Machine, View, Input, Devices, Help) and a timestamp 'Sep 8 10:43'. The prompt is 'ubuntu@ubuntu: ~'. The user enters 'touch myfile.txt'. A subsequent 'ls' command shows 'myfile.txt' in the root directory. Then, the user enters 'rm myfile.txt'. A final 'ls' command shows 'myfile.txt' has been removed.

```
ubuntu@ubuntu:~$ touch myfile.txt
ubuntu@ubuntu:~$ ls
Desktop  Downloads  myfile.txt  Public  Templates
Documents Music      Pictures     snap    Videos

ubuntu@ubuntu:~$ rm myfile.txt
ubuntu@ubuntu:~$ ls
Desktop  Downloads  Pictures  snap    Videos
Documents Music      Public    Templates

ubuntu@ubuntu:~$
```

Perintah *rm* digunakan untuk menghapus file

A terminal window titled 'Terminal' with a menu bar (Machine, View, Input, Devices, Help) and a timestamp 'Sep 8 10:54'. The prompt is 'ubuntu@ubuntu: ~'. The user enters 'ls', then 'mkdir myfolder'. A subsequent 'ls' command shows 'myfolder' in the root directory. Then, the user enters 'rmdir myfolder'. A final 'ls' command shows 'myfolder' has been removed.

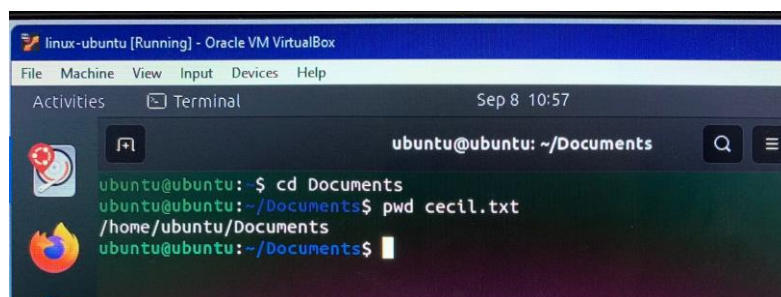
```
ubuntu@ubuntu:~$ ls
Desktop  Downloads  Pictures  snap    Videos
Documents Music      Public    Templates

ubuntu@ubuntu:~$ mkdir myfolder
ubuntu@ubuntu:~$ ls
Desktop  Downloads  myfolder  Public  Templates
Documents Music      Pictures     snap    Videos

ubuntu@ubuntu:~$ rmdir myfolder
ubuntu@ubuntu:~$ ls
Desktop  Downloads  Pictures  snap    Videos
Documents Music      Public    Templates

ubuntu@ubuntu:~$
```

Perintah *mkdir* digunakan untuk membuat direktori baru dan
rmdir digunakan untuk menghapus direktori

A terminal window titled 'Terminal' with a menu bar (File, Machine, View, Input, Devices, Help) and a timestamp 'Sep 8 10:57'. The prompt is 'ubuntu@ubuntu: ~/Documents'. The user enters 'cd Documents', then 'pwd cecil.txt'. The output shows the full path '/home/ubuntu/Documents'.

```
ubuntu@ubuntu:~/Documents$ cd Documents
ubuntu@ubuntu:~/Documents$ pwd cecil.txt
/home/ubuntu/Documents
ubuntu@ubuntu:~/Documents$
```

Perintah *pwd* digunakan untuk mencari path dari sebuah direktori

Note : Izin capture melalui foto,karena perangkat kurang support untuk capture melalui laptop (freeze)

- Processes Control Commands

```

top - 12:30:49 up 5 min, 1 user, load average: 1.94, 2.65, 1.35
Tasks: 191 total, 1 running, 190 sleeping, 0 stopped, 0 zombie
%Cpu(s): 0.7 us, 0.0 sy, 0.0 ni, 99.3 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
MiB Mem : 3926.0 total, 114.1 free, 747.6 used, 3064.3 buff/cache
MiB Swap: 0.0 total, 0.0 free, 0.0 used, 2806.7 avail Mem

  PID USER      PR  NI  VIRT  RES  SHR  S  %CPU  %MEM    TIME+  COMMAND
 1174 systemd+  20   0 14824  6288 5484  S   0.3   0.2   0:00.68 system+
 5433 ubuntu   20   0 3407832 320312 133300  S   0.3   8.0   0:09.19 gnome-+
 6378 ubuntu   20   0 766660 53068 40856  S   0.3   1.3   0:00.51 gnome-+
 6500 ubuntu   20   0 21732  3920 3224  R   0.3   0.1   0:00.06 top
    1 root      20   0 176356 13760 8568  S   0.0   0.3   0:03.74 systemd
    2 root      20   0      0      0      0  S   0.0   0.0   0:00.00 kthrea+
    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_pa+
    5 root      0 -20      0      0      0  I   0.0   0.0   0:00.00 netns
    6 root      20   0      0      0      0  S   0.0   0.0   0:01.39 kworke+
    7 root      0 -20      0      0      0  I   0.0   0.0   0:00.00 kworke+
    8 root      20   0      0      0      0  I   0.0   0.0   0:00.00 kworke+
    9 root      20   0      0      0      0  I   0.0   0.0   0:03.72 kworke+
   10 root      0 -20      0      0      0  I   0.0   0.0   0:00.00 mm_per+
   11 root      20   0      0      0      0  S   0.0   0.0   0:00.00 rcu_ta+
   12 root      20   0      0      0      0  S   0.0   0.0   0:00.00 rcu_ta+
   13 root      20   0      0      0      0  S   0.0   0.0   0:01.23 ksoftt+
   14 root      20   0      0      0      0  I   0.0   0.0   0:00.63 rcu_sc+
   15 root      rt   0      0      0      0  S   0.0   0.0   0:00.04 migrat+
   16 root     -51   0      0      0      0  S   0.0   0.0   0:00.00 idle.i+
   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 kdevtm+

```

Perintah *top* digunakan untuk menampilkan proses yang sedang berlangsung

```

linux-ubuntu [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal Sep 8 12:32
ubuntu@ubuntu: ~
ubuntu@ubuntu:~$ history
 1 top
 2 history
ubuntu@ubuntu:~$

```

Perintah *clear* digunakan untuk membersihkan barisan command pada terminal dan perintah *history* digunakan untuk melihat perintah yang sudah ditambahkan sebelumnya

- Utilities Program Command

```

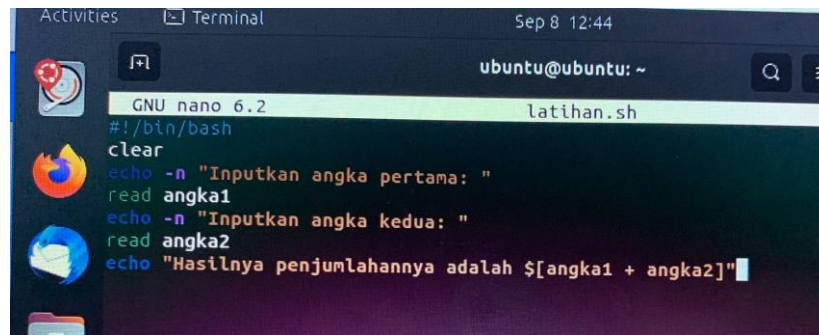
linux-ubuntu [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal Sep 8 15:03
ubuntu@ubuntu: ~
ubuntu@ubuntu:~$ ls
Desktop  Downloads  Pictures  snap      Videos
Documents Music      Public    Templates
ubuntu@ubuntu:~$ touch study.txt
ubuntu@ubuntu:~$ ls
Desktop  Downloads  Pictures  snap      Templates
Documents Music      Public    study.txt  Videos
ubuntu@ubuntu:~$ mv study.txt Documents
ubuntu@ubuntu:~$ ls
Desktop  Downloads  Pictures  snap      Videos
Documents Music      Public    Templates
ubuntu@ubuntu:~$ find study.txt
find: 'study.txt': No such file or directory
ubuntu@ubuntu:~$ find Documents
Documents
Documents/study.txt
ubuntu@ubuntu:~$

```

Perintah *find* digunakan untuk mencari file yang berlokasi di dalam direktori

Note : Izin capture melalui foto,karena perangkat kurang support untuk capture melalui laptop (freeze)

2. Buatlah Shell Script dengan minimal 5 Command

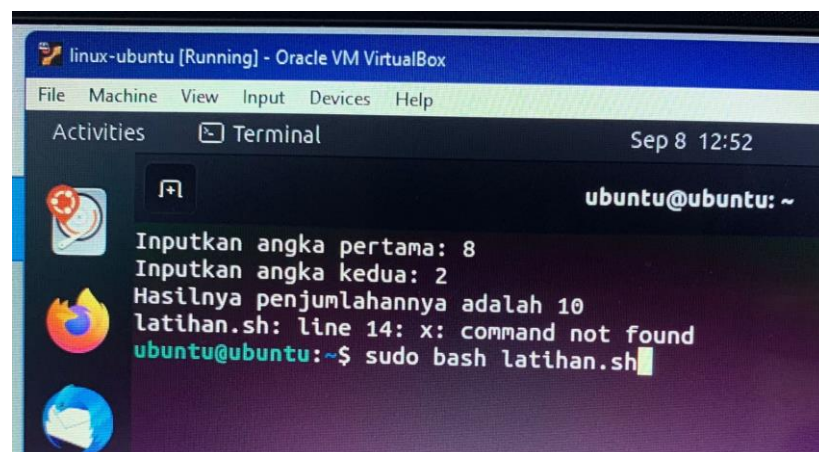


```
GNU nano 6.2 latihan.sh
#!/bin/bash
clear
echo -n "Inputkan angka pertama: "
read angka1
echo -n "Inputkan angka kedua: "
read angka2
echo "Hasilnya penjumlahannya adalah $[angka1 + angka2]"
```

Command *nano* berfungsi untuk membuat file dan diarahkan ke file editor, contoh : `nano latihan.sh`

Command *echo* berfungsi untuk memasukkan data

Command *read* meminta input



```
linux-ubuntu [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal Sep 8 12:52
ubuntu@ubuntu: ~
Inputkan angka pertama: 8
Inputkan angka kedua: 2
Hasilnya penjumlahannya adalah 10
latihan.sh: line 14: x: command not found
ubuntu@ubuntu:~$ sudo bash latihan.sh
```

Command *sudo* digunakan untuk mengeksekusi task