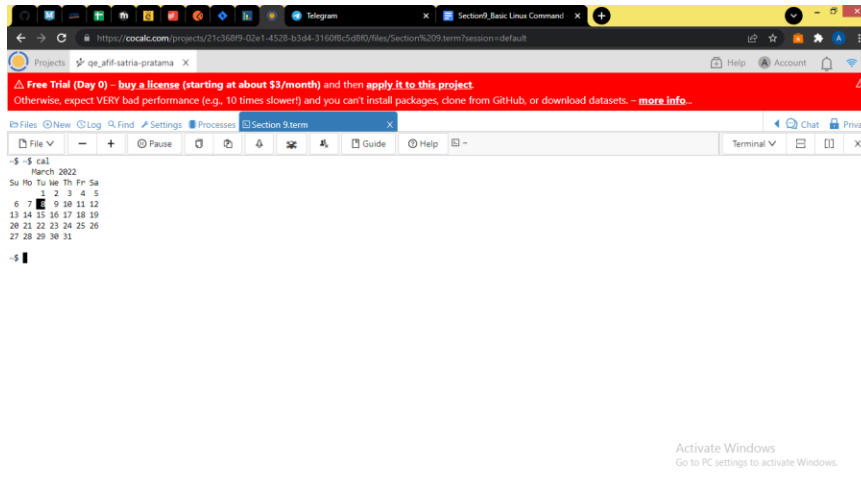


## Tugas Section 9

### A. Basic Command

#### 1. Cal: Untuk menampilkan kalender

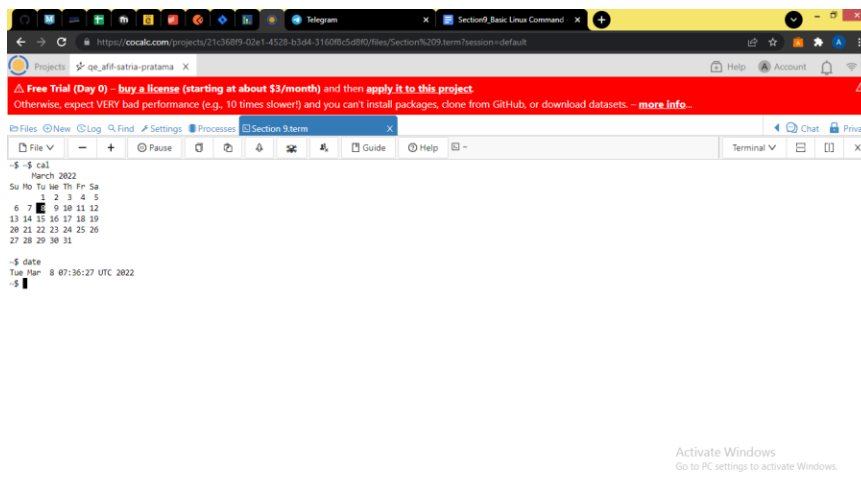


The screenshot shows a terminal window with the following content:

```
- $ cal
      March 2022
Su  Mo  Tu  We  Th  Fr  Sa
 1  2  3  4  5
 6  7  8  9 10 11 12
13 14 15 16 17 18 19
20 21 22 23 24 25 26
27 28 29 30 31
- $
```

At the bottom of the terminal window, there is a watermark that says "Activate Windows Go to PC settings to activate Windows."

#### 2. Date: Untuk menampilkan tanggal dan zona waktu saat os digunakan



The screenshot shows a terminal window with the following content:

```
- $ cal
      March 2022
Su  Mo  Tu  We  Th  Fr  Sa
 1  2  3  4  5
 6  7  8  9 10 11 12
13 14 15 16 17 18 19
20 21 22 23 24 25 26
27 28 29 30 31
- $ date
Tue Mar  8 07:36:27 UTC 2022
- $
```

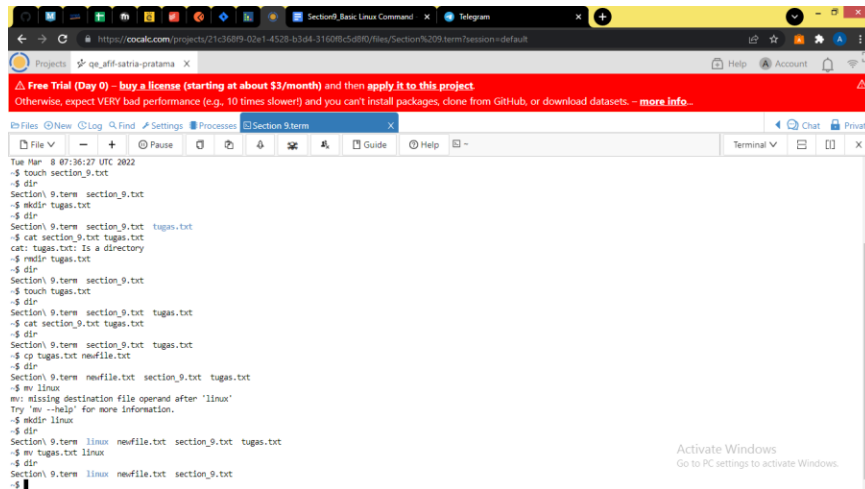
At the bottom of the terminal window, there is a watermark that says "Activate Windows Go to PC settings to activate Windows."

### B. File System Command

#### 1. Touch: Membuat file baru

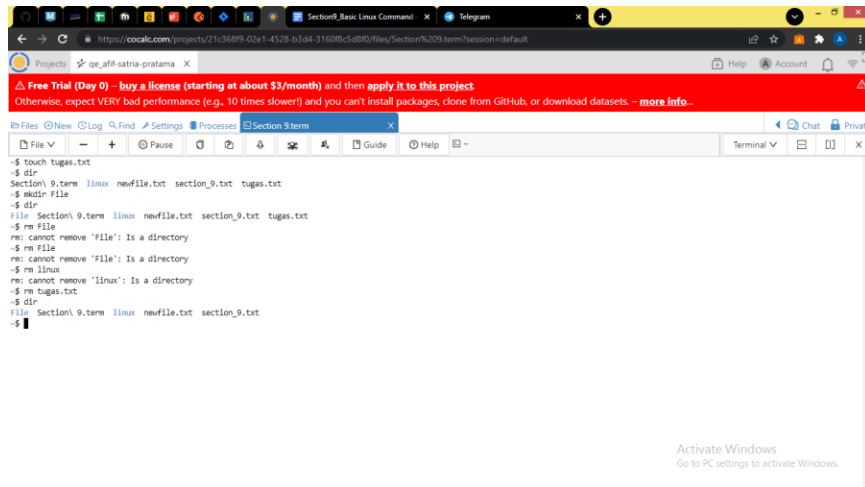


#### 4. mv: Untuk memindahkan/mengubah nama file



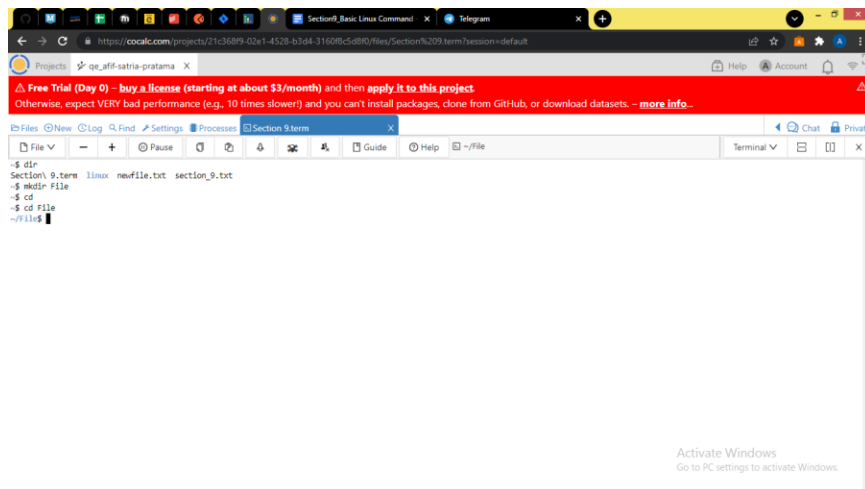
```
Tue Mar 8 07:36:27 UTC 2022
-$ touch section_9.txt
-$ dir
Section\ 9.term section_9.txt
-$ mkdir tugas.txt
-$ dir
Section\ 9.term section_9.txt tugas.txt
-$ cat section_9.txt tugas.txt
cat: tugas.txt: Is a directory
-$ rmdir tugas.txt
-$ dir
Section\ 9.term section_9.txt
-$ touch tugas.txt
-$ dir
Section\ 9.term section_9.txt tugas.txt
-$ cat section_9.txt tugas.txt
-$ dir
Section\ 9.term section_9.txt tugas.txt
-$ cp tugas.txt newfile.txt
-$ dir
Section\ 9.term newfile.txt section_9.txt tugas.txt
-$ mv linux
mv: missing destination file operand after 'linux'
Try 'mv --help' for more information.
-$ mkdir linux
-$ dir
Section\ 9.term linux newfile.txt section_9.txt tugas.txt
-$ mv tugas.txt linux
-$ dir
Section\ 9.term linux newfile.txt section_9.txt
-$
```

#### 5. rm: untuk push directory atau juga memindahkan file



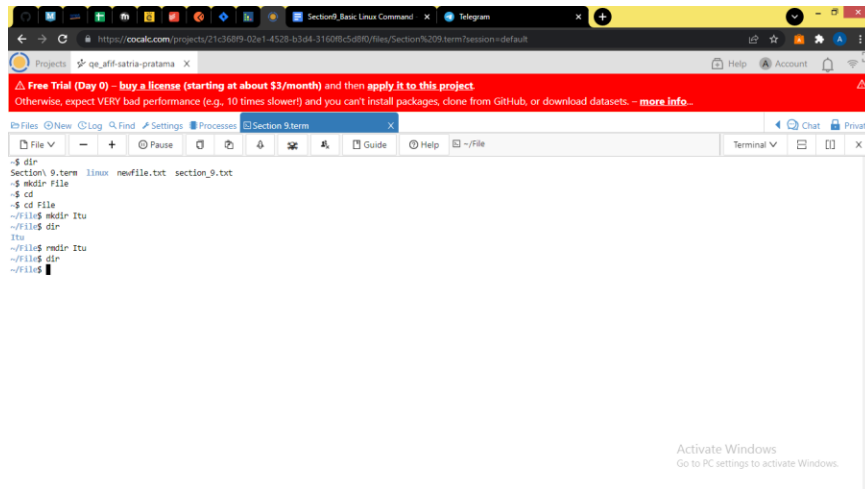
```
-$ touch tugas.txt
-$ dir
Section\ 9.term linux newfile.txt section_9.txt tugas.txt
-$ mkdir file
-$ dir
file Section\ 9.term linux newfile.txt section_9.txt tugas.txt
-$ rm file
rm: cannot remove 'file': Is a directory
-$ rm file
rm: cannot remove 'file': Is a directory
-$ rm linux
rm: cannot remove 'linux': Is a directory
-$ rm tugas.txt
-$ dir
file Section\ 9.term linux newfile.txt section_9.txt
-$
```

#### 6. mkdir: Untuk membuat directory baru



```
-$ dir
Section\ 9.term linux newfile.txt section_9.txt
-$ mkdir file
-$ cd
~/$ cd file
~/$
```

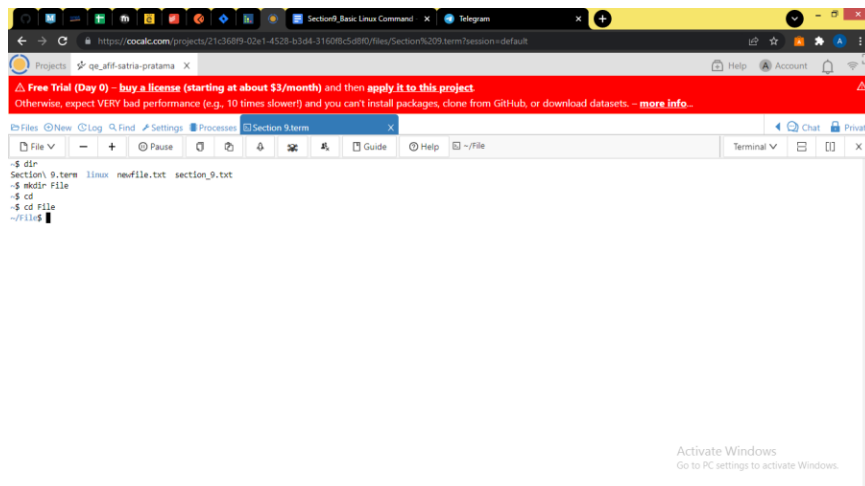
## 7. rmdir: Untuk menghapus directory yang kosong



The screenshot shows a terminal window with the following commands and output:

```
$ dir
Section\ 9.term  linux  newfile.txt  section_9.txt
$ mkdir file
$ cd
~/file$ dir
Itu
~/file$ rmdir Itu
~/file$ dir
~/file$
```

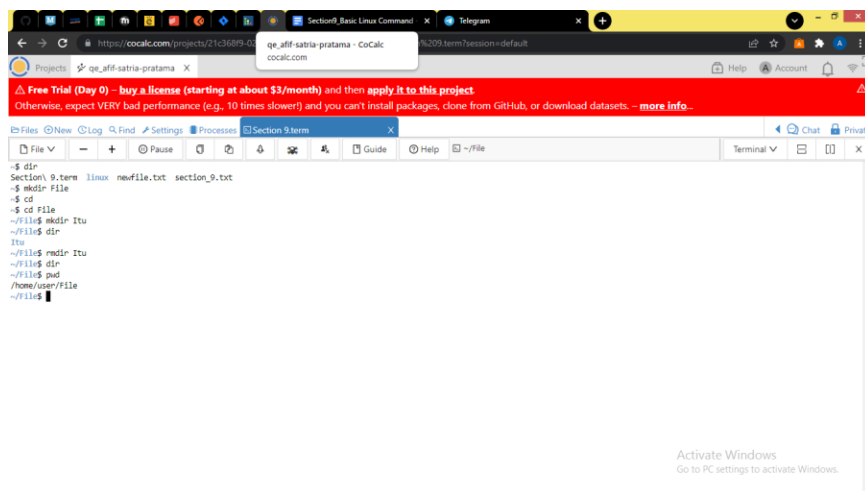
## 8. cd: Untuk menjelajahi atau memanggil nama folder



The screenshot shows a terminal window with the following commands and output:

```
$ dir
Section\ 9.term  linux  newfile.txt  section_9.txt
$ mkdir File
$ cd
~/file$
```

## 9. pwd: Untuk mencari pad pada directory yang digunakan

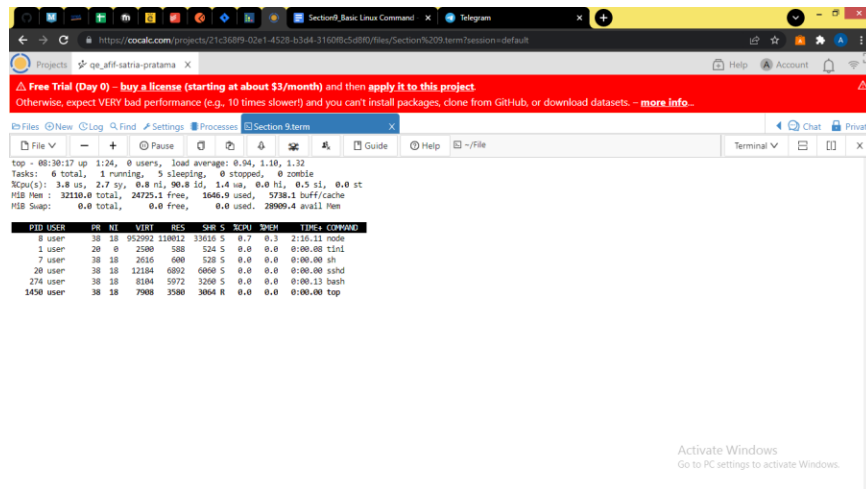


The screenshot shows a terminal window with the following commands and output:

```
$ dir
Section\ 9.term  linux  newfile.txt  section_9.txt
$ mkdir File
$ cd
~/file$ dir
Itu
~/file$ rmdir Itu
~/file$ dir
~/file$ pwd
/home/user/file
~/file$
```

## C. Process Control Command

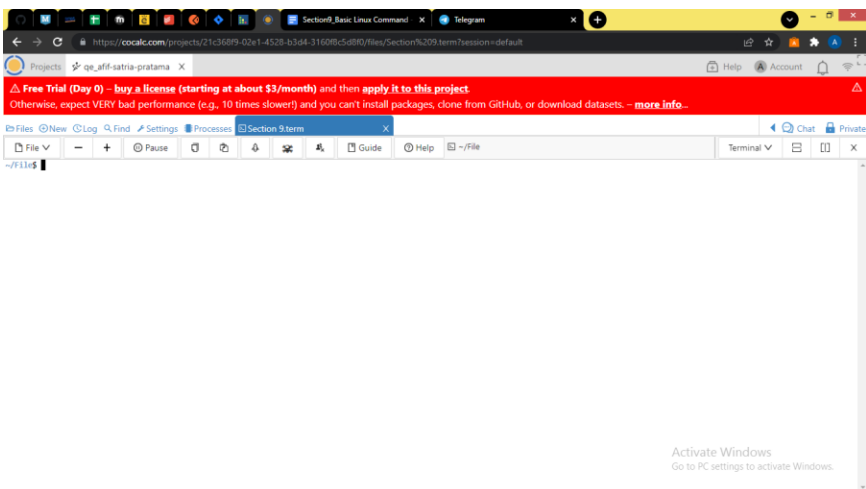
### 1. top: Menampilkan proses yang sedang berlangsung



```
top - 08:30:17 up 1:24, 0 users, load average: 0.04, 1.10, 1.32
Tasks: 0 total, 1 running, 5 sleeping, 0 stopped, 0 zombie
%Cpu(s): 3.8 us, 2.7 sy, 0.8 ni, 90.8 id, 1.4 wa, 0.0 hi, 0.5 si, 0.0 st
MiB Mem : 32118.0 total, 24725.1 free, 1046.0 used, 5738.1 buff/cache
MiB Swap: 0.0 total, 0.0 free, 0.0 used, 28800.4 avail Mem

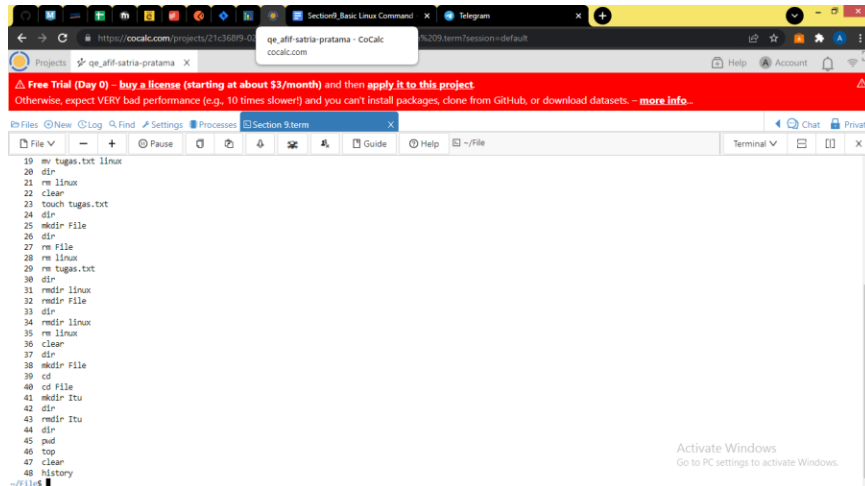
  PID USER      PR  NI  VIRT  RES  SHR  S  %CPU  %MEM     TIME+ COMMAND
    8 user      20   0   2592 12032 33128 S   0.7   0.3   1:10.11 node
    1 user      20   0   2590   588   524 S   0.0   0.0   0:00.00 tini
    7 user      38  18   2616   600   528 S   0.0   0.0   0:00.00 sh
   20 user      38  18 12134 6892 6000 S   0.0   0.0   0:00.00 sshd
  274 user      38  18  8184 5972 3200 S   0.0   0.0   0:00.13 bash
 1450 user      38  18  7908 3580 3004 R   0.0   0.0   0:00.00 top
```

### 2. clear: Membersihkan Terminal



```
~/.files
```

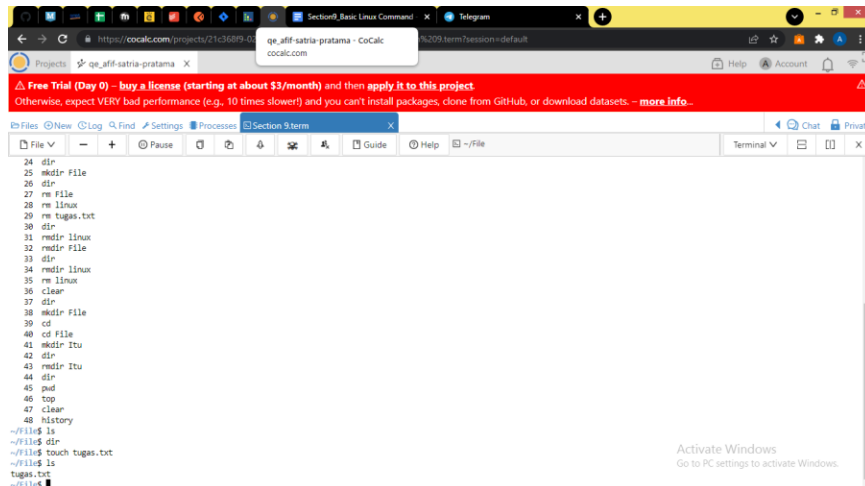
### 3. history: Melihat daftar command yang sudah dijalankan



```
19 mv tugas.txt linux
20 dir
21 rm linux
22 clear
23 touch tugas.txt
24 dir
25 mkdir file
26 dir
27 rm file
28 rm linux
29 rm tugas.txt
30 dir
31 rm dir linux
32 rm dir file
33 dir
34 rm dir linux
35 rm linux
36 clear
37 dir
38 mkdir file
39 cd
40 cd file
41 mkdir itu
42 dir
43 rm dir itu
44 dir
45 pwd
46 top
47 clear
48 history
```

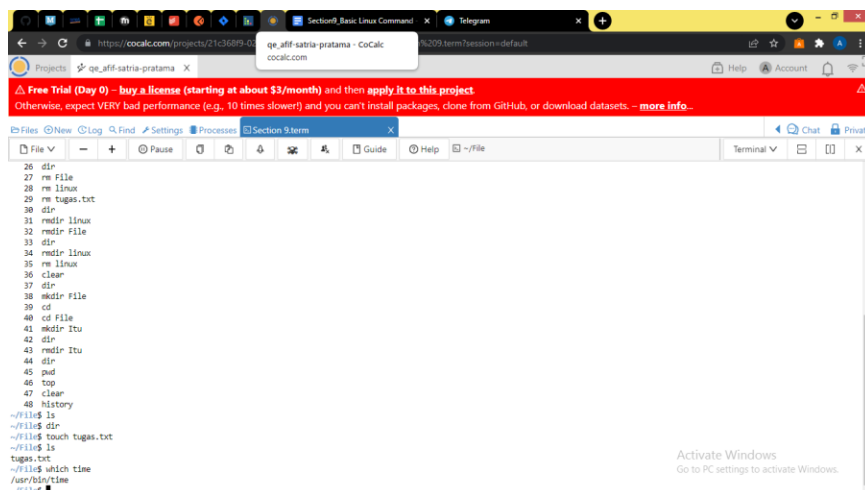
## D. Utilities Program Command

### 1. Is: Menampilkan semua file



```
24 dir
25 mkdir file
26 dir
27 rm file
28 rm linux
29 rm tugas.txt
30 dir
31 rm dir linux
32 rm dir file
33 dir
34 rm dir linux
35 rm linux
36 clear
37 dir
38 mkdir file
39 cd
40 cd file
41 mkdir itu
42 dir
43 rm dir itu
44 dir
45 pwd
46 top
47 clear
48 history
~/file$ ls
~/file$ dir
~/file$ touch tugas.txt
~/file$ ls
tugas.txt
~/file$
```

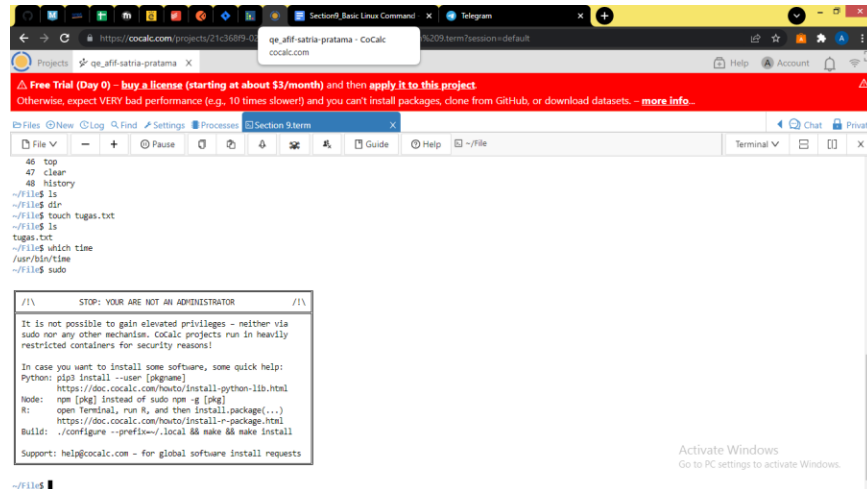
### 2. which: Mencari file yang akan dieksekusi



```
26 dir
27 rm file
28 rm linux
29 rm tugas.txt
30 dir
31 rm dir linux
32 rm dir file
33 dir
34 rm dir linux
35 rm linux
36 clear
37 dir
38 mkdir file
39 cd
40 cd file
41 mkdir itu
42 dir
43 rm dir itu
44 dir
45 pwd
46 top
47 clear
48 history
~/file$ ls
~/file$ dir
~/file$ touch tugas.txt
~/file$ ls
tugas.txt
~/file$ which time
/usr/bin/time
~/file$
```

### 3. sudo: Menjalankan task yang membutuhkan hak untuk akses

Tidak dapat dibuat karena saya menggunakan terminal linux dari website dan tidak semua website bisa



```
46 top
47 clear
48 history
~/file$ ls
~/file$ dir
~/file$ touch tugas.txt
~/file$ ls
tugas.txt
~/file$ which time
/usr/bin/time
~/file$ sudo

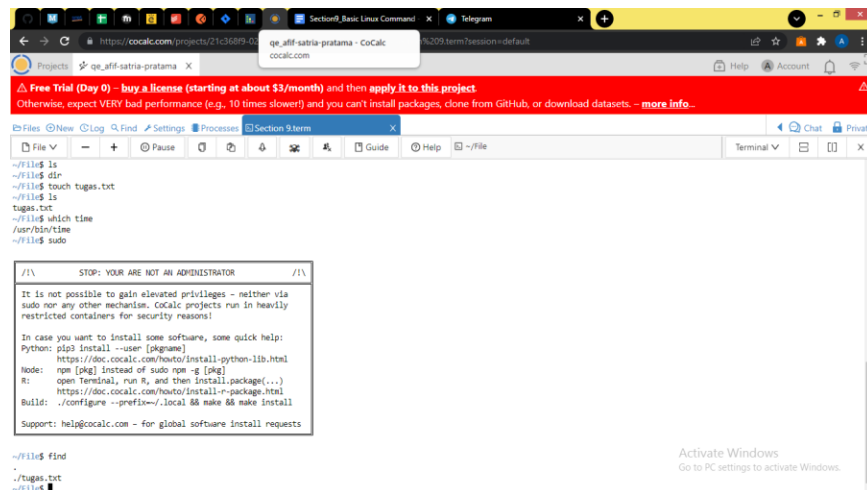
/!\      STOP: YOUR ARE NOT AN ADMINISTRATOR      /!\

It is not possible to gain elevated privileges - neither via
sudo nor any other mechanism. Cocalc projects run in heavily
restricted containers for security reasons!

In case you want to install some software, some quick help:
Python: pip3 install --user [package]
        https://doc.cocalc.com/howto/install-python-lib.html
Node:   npm [pkg] Instead of sudo npm -g [pkg]
R:      open Terminal, run R, and then install.package(...)
        https://doc.cocalc.com/howto/install-r-package.html
Build:  ./configure --prefix=/local && make && make install
Support: help@cocalc.com - for global software install requests

Activate Windows
Go to PC settings to activate Windows.
```

### 4. find: Mencari file dan directory



```
~/file$ ls
~/file$ dir
~/file$ touch tugas.txt
~/file$ ls
tugas.txt
~/file$ which time
/usr/bin/time
~/file$ sudo

/!\      STOP: YOUR ARE NOT AN ADMINISTRATOR      /!\

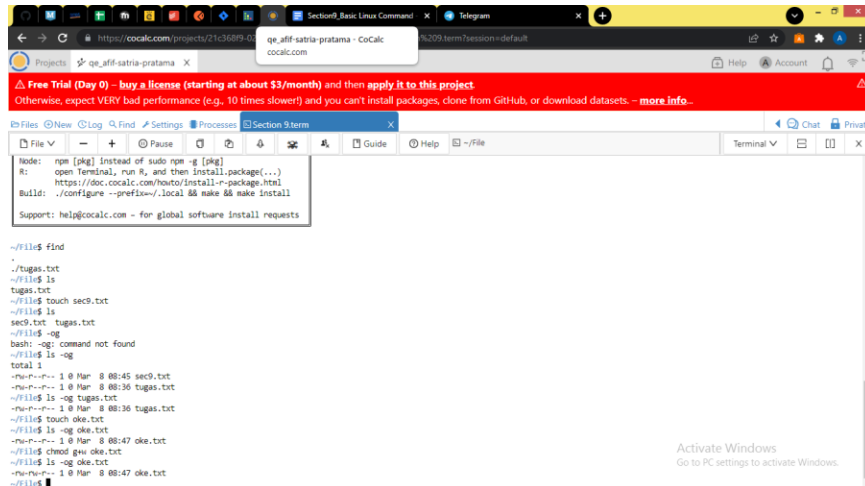
It is not possible to gain elevated privileges - neither via
sudo nor any other mechanism. Cocalc projects run in heavily
restricted containers for security reasons!

In case you want to install some software, some quick help:
Python: pip3 install --user [package]
        https://doc.cocalc.com/howto/install-python-lib.html
Node:   npm [pkg] Instead of sudo npm -g [pkg]
R:      open Terminal, run R, and then install.package(...)
        https://doc.cocalc.com/howto/install-r-package.html
Build:  ./configure --prefix=/local && make && make install
Support: help@cocalc.com - for global software install requests

Activate Windows
Go to PC settings to activate Windows.
```

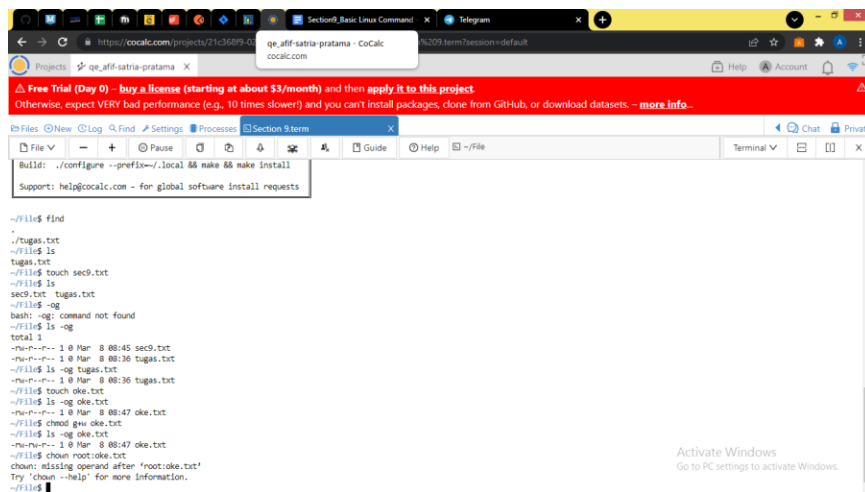
## E. File Access Permissions

### 1. chmod: Membaca dan menulis permissions dari directory



```
~/$ find
./tugas.txt
~/$ ls
tugas.txt
~/$ touch sec9.txt
~/$ ls
sec9.txt tugas.txt
~/$ -og
bash: -og: command not found
~/$ ls -og
total 1
-rw-r--r-- 1 0 Mar 8 08:45 sec9.txt
-rw-r--r-- 1 0 Mar 8 08:36 tugas.txt
~/$ ls -og tugas.txt
-rw-r--r-- 1 0 Mar 8 08:36 tugas.txt
~/$ touch oke.txt
~/$ ls -og oke.txt
-rw-r--r-- 1 0 Mar 8 08:47 oke.txt
~/$ chmod g+w oke.txt
~/$ ls -og oke.txt
-rw-r--r-- 1 0 Mar 8 08:47 oke.txt
~/$
```

2. chown:



```
~/$ find
./tugas.txt
~/$ ls
tugas.txt
~/$ touch sec9.txt
~/$ ls
sec9.txt tugas.txt
~/$ -og
bash: -og: command not found
~/$ ls -og
total 1
-rw-r--r-- 1 0 Mar 8 08:45 sec9.txt
-rw-r--r-- 1 0 Mar 8 08:36 tugas.txt
~/$ ls -og tugas.txt
-rw-r--r-- 1 0 Mar 8 08:36 tugas.txt
~/$ touch oke.txt
~/$ ls -og oke.txt
-rw-r--r-- 1 0 Mar 8 08:47 oke.txt
~/$ chmod g+w oke.txt
~/$ ls -og oke.txt
-rw-r--r-- 1 0 Mar 8 08:47 oke.txt
~/$ chown root:oke.txt
chown: missing operand after 'root:oke.txt'
Try 'chown --help' for more information.
~/$
```

## 2. Shell Script dengan 5 command

5 command yang dipakai:

1. Echo : untuk menampilkan text yang ditulis
2. date : untuk menampilkan tanggal dengan zona waktu yang tertera di os
3. pwd : melihat directory saat ini
4. mkdir : membuat directory baru
5. dir : melihat isi directory



