

Linux Basic Command

1.

```
uyuy@LAPTOP-SQPSLS3G:/mnt/c/uyuy-ubuntu$ ls
Helloworld.sh  myshell.sh  myshell.sh  tugasalterraa
uyuy@LAPTOP-SQPSLS3G:/mnt/c/uyuy-ubuntu$ ls -a
.  .  Helloworld.sh  myshell.sh  myshell.sh  tugasalterraa
uyuy@LAPTOP-SQPSLS3G:/mnt/c/uyuy-ubuntu$ ls -a -l
total 0
drwxrwxrwx 1 uyuy uyuy 512 Nov 17 23:34 .
drwxrwxrwx 1 uyuy uyuy 512 Nov 17 23:08 ..
-rwxrwxrwx 1 uyuy uyuy  0 Nov 17 23:11 Helloworld.sh
-rwxrwxrwx 1 uyuy uyuy  0 Nov 17 23:08 myshell.sh
-rwxrwxrwx 1 uyuy uyuy 211 Nov 17 23:31 myshell.sh
drwxrwxrwx 1 uyuy uyuy 512 Nov 17 23:34 tugasalterraa
uyuy@LAPTOP-SQPSLS3G:/mnt/c/uyuy-ubuntu$ ls -a /usr
.  ..  bin  games  include  lib  local  abin  share  src
uyuy@LAPTOP-SQPSLS3G:/mnt/c/uyuy-ubuntu$ cal
      November 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

uyuy@LAPTOP-SQPSLS3G:/mnt/c/uyuy-ubuntu$ date
Thu Nov 17 23:35:51 WIB 2022
uyuy@LAPTOP-SQPSLS3G:/mnt/c/uyuy-ubuntu$ touch uyuy.sh
uyuy@LAPTOP-SQPSLS3G:/mnt/c/uyuy-ubuntu$ ls
Helloworld.sh  myshell.sh  myshell.sh  tugasalterraa  uyuy.sh
uyuy@LAPTOP-SQPSLS3G:/mnt/c/uyuy-ubuntu$ cat shell.sh
echo "start command"
mkdir tugasalterraa
cd tugasalterraa
touch tugasalterraa.sh
echo "directory created"
echo "now we will see random number"
echo $((RANDOM * $RANDOM))

a=99
b=9999
echo $a + $b = $((($a + $b))
uyuy@LAPTOP-SQPSLS3G:/mnt/c/uyuy-ubuntu$ cp shell.sh shell2.sh
uyuy@LAPTOP-SQPSLS3G:/mnt/c/uyuy-ubuntu$ ls
Helloworld.sh  shell2.sh  shell.sh  tugasalterraa  uyuy.sh
uyuy@LAPTOP-SQPSLS3G:/mnt/c/uyuy-ubuntu$ mv shell.sh uyuy.sh
uyuy@LAPTOP-SQPSLS3G:/mnt/c/uyuy-ubuntu$ rm shell2.sh
uyuy@LAPTOP-SQPSLS3G:/mnt/c/uyuy-ubuntu$ ls
Helloworld.sh  tugasalterraa  uyuy.sh
uyuy@LAPTOP-SQPSLS3G:/mnt/c/uyuy-ubuntu$ mkdir uyuy
uyuy@LAPTOP-SQPSLS3G:/mnt/c/uyuy-ubuntu$ ls
Helloworld.sh  tugasalterraa  uyuy  uyuy.sh
uyuy@LAPTOP-SQPSLS3G:/mnt/c/uyuy-ubuntu$ rmdir uyuy
uyuy@LAPTOP-SQPSLS3G:/mnt/c/uyuy-ubuntu$ ls
Helloworld.sh  tugasalterraa  uyuy.sh
uyuy@LAPTOP-SQPSLS3G:/mnt/c/uyuy-ubuntu$
```

```
uyuy@LAPTOP-SQPSLS3G:/mnt/c/uyuy-ubuntu
uyuy@LAPTOP-SQPSLS3G:/mnt/c/uyuy-ubuntu$ cd tugasalterraa
uyuy@LAPTOP-SQPSLS3G:/mnt/c/uyuy-ubuntu/tugasalterraa$ cd ..
uyuy@LAPTOP-SQPSLS3G:/mnt/c/uyuy-ubuntu$ clear
uyuy@LAPTOP-SQPSLS3G:/mnt/c/uyuy-ubuntu$ cd tugasalterraa
uyuy@LAPTOP-SQPSLS3G:/mnt/c/uyuy-ubuntu/tugasalterraa$ pwd
/mnt/c/uyuy-ubuntu/tugasalterraa
uyuy@LAPTOP-SQPSLS3G:/mnt/c/uyuy-ubuntu/tugasalterraa$ cd ..
uyuy@LAPTOP-SQPSLS3G:/mnt/c/uyuy-ubuntu$ top
top - 23:49:00 up 42 min, 0 users, load average: 0.00, 0.00, 0.00
Tasks: 11 total, 1 running, 4 sleeping, 6 stopped, 0 zombie
%Cpu(s):  0.0 us,  0.0 sy,  0.0 ni,100.0 id,  0.0 wa,  0.0 hi,  0.0 si,  0.0 st
KiB Mem : 2920956 total, 2807924 free,  82760 used,  30272 buff/cache
KiB Swap: 1048576 total, 1048576 free,  0 used. 2744116 avail Mem

  PID USER      PR  NI   VIRT   RES   SHR  S  %CPU  %MEM     TIME+ COMMAND
    1 root        20   0   1748   1076   1016 S    0.0  0.0   0:00.03 init
    7 root        20   0   1756    68     0 S    0.0  0.0   0:00.00 init
    8 root        20   0   1756    76     0 S    0.0  0.0   0:00.54 init
    9 uyuy        20   0  19912  3684   3096 S    0.0  0.1   0:00.28 bash
   32 uyuy        20   0  19908  2796   2208 T    0.0  0.1   0:00.00 bash
   35 uyuy        20   0  24032  3608   2784 T    0.0  0.1   0:00.01 nano
   53 uyuy        20   0  24032  3968   2868 T    0.0  0.1   0:00.03 nano
   54 uyuy        20   0  24032  3884   2784 T    0.0  0.1   0:00.02 nano
   70 uyuy        20   0  24272  4328   2916 T    0.0  0.1   0:00.01 nano
   71 uyuy        20   0  24032  3996   2908 T    0.0  0.1   0:00.01 nano
  140 uyuy        20   0  42700  3604   3112 R    0.0  0.1   0:00.01 top
```

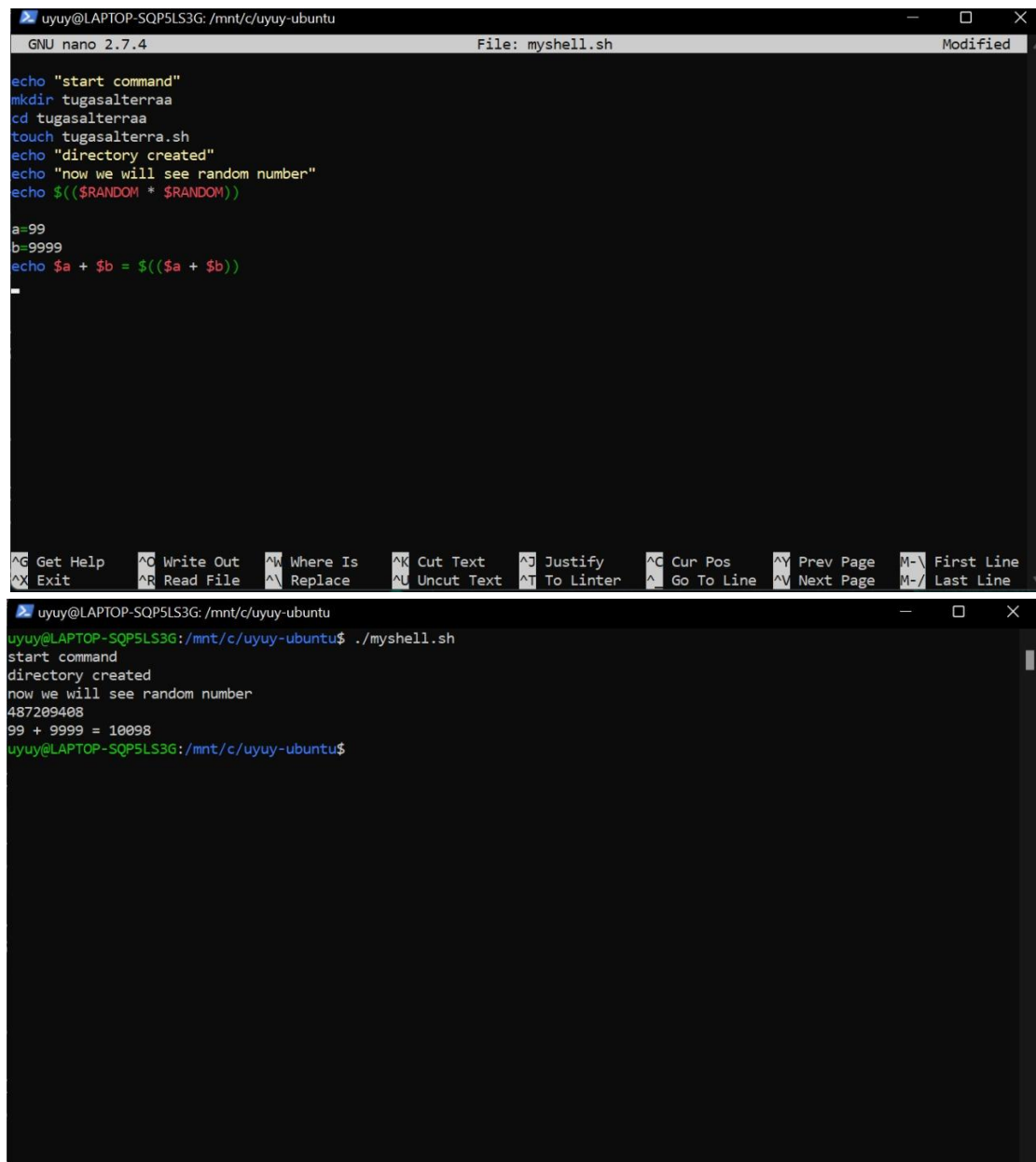
```
Select uyuy@LAPTOP-SQP5LS3G: /mnt/c/uyuy-ubuntu
uyuy@LAPTOP-SQP5LS3G:/mnt/c/uyuy-ubuntu$ history
1  ls
2  cd Uyuy
3  clear
4  cd ..
5  mkdir uyuy-ubuntu
6  ls
7  cd uyuy-ubuntu/
8  clear
9  touch myshell.sh
10 touch myshell.sh
11 ls
12 nano myshell.sh

uyuy@LAPTOP-SQP5LS3G:/mnt/c/uyuy-ubuntu$ which java
/usr/bin/java
uyuy@LAPTOP-SQP5LS3G:/mnt/c/uyuy-ubuntu$ sudo nano uyuy.sh
uyuy@LAPTOP-SQP5LS3G:/mnt/c/uyuy-ubuntu$ find uyuy.sh
uyuy.sh
uyuy@LAPTOP-SQP5LS3G:/mnt/c/uyuy-ubuntu$ chmod 777 uyuy.sh
uyuy@LAPTOP-SQP5LS3G:/mnt/c/uyuy-ubuntu$ chown test uyuy.sh
chown: invalid user: 'test'
uyuy@LAPTOP-SQP5LS3G:/mnt/c/uyuy-ubuntu$ chown ubuntu uyuy.sh
chown: invalid user: 'ubuntu'
uyuy@LAPTOP-SQP5LS3G:/mnt/c/uyuy-ubuntu$ chown uyuy uyuy.sh
uyuy@LAPTOP-SQP5LS3G:/mnt/c/uyuy-ubuntu$ ls -a | grep uyuy.sh
uyuy.sh
uyuy@LAPTOP-SQP5LS3G:/mnt/c/uyuy-ubuntu$ ./uyuy.sh
start command
mkdir: cannot create directory 'tugasalterraa': File exists
directory created
now we will see random number
255393360
99 + 9999 = 10098
uyuy@LAPTOP-SQP5LS3G:/mnt/c/uyuy-ubuntu$ nano uyuy.sh
uyuy@LAPTOP-SQP5LS3G:/mnt/c/uyuy-ubuntu$ >
-bash: syntax error near unexpected token `newline'
uyuy@LAPTOP-SQP5LS3G:/mnt/c/uyuy-ubuntu$ > uyuy.sh
uyuy@LAPTOP-SQP5LS3G:/mnt/c/uyuy-ubuntu$ >> uyuy.sh
uyuy@LAPTOP-SQP5LS3G:/mnt/c/uyuy-ubuntu$ nano uyuy.sh
uyuy@LAPTOP-SQP5LS3G:/mnt/c/uyuy-ubuntu$ nano uyuy.sh
uyuy@LAPTOP-SQP5LS3G:/mnt/c/uyuy-ubuntu$
```

- A. ls = memperlihatkan isi folder yang sekarang berada
- B. ls -a = mengeluarkan semua file
- C. ls -a -l = memperlihatkan isi folder dengan detail
- D. ls -a /usr = melihat folder yang ada di directory ini
- E. cal = calendar
- F. date = tanggal
- G. touch = untuk bikin file
- H. clear = membersihkan layar terminal
- I. cat = memperlihatkan isi file
- J. cp = copy file
- K. mv = memindahkan file
- L. rm = menghapus file
- M. mkdir = membuat folder
- N. rmdir = menghapus folder
- O. cd = change directory
- P. pwd = memberi tahu detail directory
- Q. cd .. = keluar folder satu kali
- R. cd .. / (nama folder) = keluar sekali lalu pindah ke folder lainnya
- S. cd .. / .. / = keluar folder dua kali
- T. cd / (nama file) / (nama file) = masuk ke folder dua kali
- U. top = ngecek task manager, untuk stop tekan CTRL+C
- V. history = untuk cek riwayat command yg telah digunakan
- W. which = untuk cek file yang dituju ada di folder apa
- X. sudo = mengubah permission menjadi admin, lalu masukkan pass dari pc

Y. find = menemukan file
Z. chmod = merubah file permission
AA. chown = merubah file owner permission
AB. ls -a | grep (nama file) = memfilter ke file spesifik
AC. grep = filter
AD. echo = untuk print variabel
AE. > = untuk merubah isi file
AF. >> = menambahkan isi file
AG. nano = masuk ke text editor
AH. ./ = menjalankan yang ada di file itu
AI. # = komentar
AJ. \$ = untuk mengambil variabel

2.



The image shows two screenshots of a terminal window. The top screenshot shows the nano text editor editing a file named 'myshell.sh'. The script contains the following commands: 'echo "start command"', 'mkdir tugasalterraa', 'cd tugasalterraa', 'touch tugasalterra.sh', 'echo "directory created"', 'echo "now we will see random number"', 'echo \$((RANDOM * RANDOM))', 'a=99', 'b=9999', and 'echo \$a + \$b = \$((a + b))'. The bottom screenshot shows the terminal after running './myshell.sh'. The output is: 'start command', 'directory created', 'now we will see random number', '487209408', and '99 + 9999 = 10098'.

```
uyuy@LAPTOP-SQP5LS3G: /mnt/c/uyuy-ubuntu
GNU nano 2.7.4 File: myshell.sh Modified

echo "start command"
mkdir tugasalterraa
cd tugasalterraa
touch tugasalterra.sh
echo "directory created"
echo "now we will see random number"
echo $((RANDOM * RANDOM))

a=99
b=9999
echo $a + $b = $((a + b))

uyuy@LAPTOP-SQP5LS3G: /mnt/c/uyuy-ubuntu$ ./myshell.sh
start command
directory created
now we will see random number
487209408
99 + 9999 = 10098
uyuy@LAPTOP-SQP5LS3G: /mnt/c/uyuy-ubuntu$
```

- A. Membuat print text "Start Command"
- B. Membuat folder tugasalterraa
- C. Pindah ke folder tugasalterraa
- D. Membuat file tugasalterra.sh
- E. Membuat print text "Directory Created"
- F. Membuat print text "now we will see random number"
- G. Membuat dan menghasilkan print angka random dikali angka random
- H. Membuat print variabel a = 99 ditambah variabel b = 9999 dan menghasilkan jumlah dari pertambahan tersebut