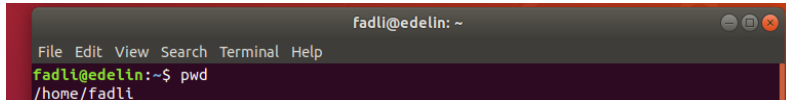


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NPM : 21083010087

Sistem Operasi Kelas-A

Tugas 1 Dokumentasi Bash

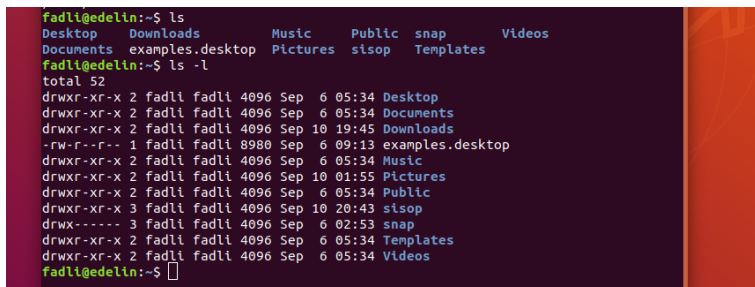
1. pwd



```
fadli@edelin: ~  
File Edit View Search Terminal Help  
fadli@edelin:~$ pwd  
/home/fadli
```

pwd adalah singkatan dari *parent working directory* yang berfungsi untuk mengetahui direktori yang sedang digunakan.

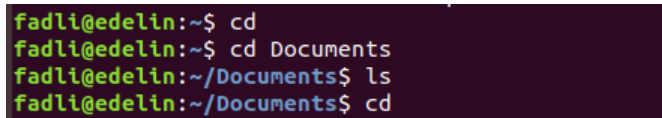
2. ls dan ls -l



```
fadli@edelin:~$ ls  
Desktop  Downloads  Music  Public  snap  Videos  
Documents examples.desktop Pictures sisop Templates  
fadli@edelin:~$ ls -l  
total 52  
drwxr-xr-x 2 fadli fadli 4096 Sep 6 05:34 Desktop  
drwxr-xr-x 2 fadli fadli 4096 Sep 6 05:34 Documents  
drwxr-xr-x 2 fadli fadli 4096 Sep 10 19:45 Downloads  
-rw-r--r-- 1 fadli fadli 8980 Sep 6 09:13 examples.desktop  
drwxr-xr-x 2 fadli fadli 4096 Sep 6 05:34 Music  
drwxr-xr-x 2 fadli fadli 4096 Sep 10 01:55 Pictures  
drwxr-xr-x 2 fadli fadli 4096 Sep 6 05:34 Public  
drwxr-xr-x 3 fadli fadli 4096 Sep 10 20:43 sisop  
drwx----- 3 fadli fadli 4096 Sep 6 02:53 snap  
drwxr-xr-x 2 fadli fadli 4096 Sep 6 05:34 Templates  
drwxr-xr-x 2 fadli fadli 4096 Sep 6 05:34 Videos  
fadli@edelin:~$
```

ls adalah sebuah perintah yang digunakan untuk melihat isi dari direktori
ls -l adalah sebuah perintah yang digunakan untuk mengetahui hak akses dan waktu terakhir dari direktori dirubah.

3. cd



```
fadli@edelin:~$ cd  
fadli@edelin:~$ cd Documents  
fadli@edelin:~/Documents$ ls  
fadli@edelin:~/Documents$ cd
```

cd adalah singkatan dari *change directory* yang digunakan untuk pindah dari satu direktori ke direktori yang lain atau masuk/keluar dari direktori.

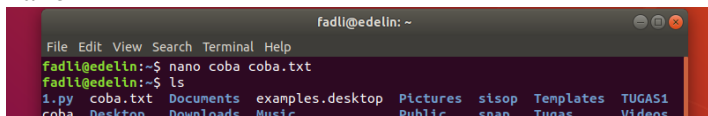
4. cat



```
fadli@edelin:~/sisop$ cat 'coba coba'  
hiiii terima kasih  
fadli@edelin:~/sisop$
```

cat adalah sebuah perintah yang digunakan untuk melihat isi dari sebuah berkas/file.

5. nano



```
fadli@edelin: ~  
File Edit View Search Terminal Help  
fadli@edelin:~$ nano coba coba.txt  
fadli@edelin:~$ ls  
1.py  coba.txt  Documents  examples.desktop  Pictures  sisop  Templates  TUGAS1  
coba  Desktop  Downloads  Music  Public  snap  Tugas  Videos
```

nano adalah sebuah perintah yang bisa digunakan untuk membuat file di sebuah teks editor yang memiliki fitur terbatas.

6. mkdir

```
fadli@edelin:~$ mkdir TUGAS2
fadli@edelin:~$ ls
1.py Desktop Downloads Music Public snap
p Tugas Videos
coba.txt Documents examples.desktop Pictures sisop Tem
plates TUGAS2
fadli@edelin:~$ mv coba.txt TUGAS2
```

mkdir adalah sebuah perintah untuk membuat sebuah folder baru/direktori.

7. rm dan rmdir

```
fadli@edelin:~$ rm coba
fadli@edelin:~$ ls
1.py Documents Music sisop Tugas
coba.txt Downloads Pictures snap TUGAS1
Desktop examples.desktop Public Templates Videos
fadli@edelin:~$ rmdir TUGAS1
fadli@edelin:~$ ls
1.py Desktop Downloads Music Public snap
Tugas
coba.txt Documents examples.desktop Pictures sisop Templ
ates Videos
fadli@edelin:~$
```

rm adalah sebuah perintah untuk menghapus sebuah berkas/file. Sedangkan rmdir adalah sebuah perintah yang digunakan untuk menghapus sebuah direktori yang kosong. Dan jika ingin menghapus direktori yang sudah ada isinya bisa menggunakan perintah rm -rf.

8. mv

```
fadli@edelin:~$ mkdir TUGAS2
fadli@edelin:~$ ls
1.py Desktop Downloads Music Public snap Tugas Videos
coba.txt Documents examples.desktop Pictures sisop Templates TUGAS2
fadli@edelin:~$ mv coba.txt TUGAS2
fadli@edelin:~$ ls
1.py Documents examples.desktop Pictures sisop Templates TUGAS2
Desktop Downloads Music Public snap Tugas Videos
```

mv adalah sebuah perintah untuk memindahkan berkas/file ke sebuah direktori (*cut-paste*).

9. cp

```
fadli@edelin:~$ nano coba_lagi.txt
fadli@edelin:~$ ls
1.py Desktop Downloads Music Public snap Tugas Videos
coba_lagi.txt Documents examples.desktop Pictures sisop Templates Tugas1
fadli@edelin:~$ cp coba_lagi.txt Tugas1
fadli@edelin:~$ ls
1.py Desktop Downloads Music Public snap Tugas Videos
coba_lagi.txt Documents examples.desktop Pictures sisop Templates Tugas1
fadli@edelin:~$
```

cp adalah singkatan dari *copy-paste*, sebuah perintah untuk memindahkan berkas/file ke direktori (*copy-paste*).

10. rm -rf

```
fadli@edelin:~$ mv coba.txt TUGAS2
fadli@edelin:~$ ls
1.py Documents examples.desktop Pictures sisop Templates TUGAS2
Desktop Downloads Music Public snap Tugas Videos
fadli@edelin:~$ rm -rf TUGAS2
fadli@edelin:~$ ls
1.py Documents examples.desktop Pictures sisop Templates Videos
Desktop Downloads Music Public snap Tugas
fadli@edelin:~$
```

rm -rf ini adalah sebuah perintah untuk menghapus direktori yang ada isinya.

11. df

```

fadli@gedlin:~$ df
Filesystem      1K-blocks    Used Available Use% Mounted on
udev            1910476      0   1910476   0% /dev
tmpfs           389380      0    389380   0% /run
/dev/sda9       112397596  7902424  98739524   8% /
tmpfs           1946892     0    1946892   0% /dev/shm
tmpfs            5120       4      5116   1% /run/lock
tmpfs           1946892     0    1946892   0% /sys/fs/cgroup
/dev/loop0      144128     144128   0 100% /snap/gnome-3-26-1604/74
/dev/loop1      354688     354688   0 100% /snap/gnome-3-38-2004/115
/dev/loop4      13312      13312   0 100% /snap/gnome-characters/139
/dev/loop2      14976      14976   0 100% /snap/gnome-logs/45
/dev/loop5       3840       3840   0 100% /snap/gnome-system-monitor/57
/dev/loop8      116736     116736   0 100% /snap/core/13425
/dev/loop3      35456      35456   0 100% /snap/gtk-common-themes/818
/dev/loop6      63488      63488   0 100% /snap/core20/1611
/dev/loop7      93952      93952   0 100% /snap/gtk-common-themes/1535
/dev/loop9       768        768   0 100% /snap/gnome-characters/741
/dev/loop10     56960      56960   0 100% /snap/core18/2538
/dev/loop11     2688       2688   0 100% /snap/gnome-system-monitor/178
/dev/loop12     2384       2384   0 100% /snap/gnome-calculator/260
/dev/loop13     64768      64768   0 100% /snap/core20/1623
/dev/loop15      128        128   0 100% /snap/bare/5
/dev/loop16      640        640   0 100% /snap/gnome-logs/112
/dev/loop14     224256     224256   0 100% /snap/gnome-3-34-1804/77
/dev/loop17     56960      56960   0 100% /snap/core18/2560
/dev/loop18     144128     144128   0 100% /snap/gnome-3-26-1604/104
/dev/loop19     2688       2688   0 100% /snap/gnome-calculator/920
tmpfs           389376      16   389360   1% /run/user/121
tmpfs           389376      48   389328   1% /run/user/1000
fadli@gedlin:~$

```

df adalah singkatan dari *disk free*, yang berfungsi untuk melihat ruangan yang tersisa dari sebuah partisi.

12. top

```

File Edit View Search Terminal Help
top - 23:24:56 up 48 min, 1 user, load average: 1.38, 1.57, 1.59
Tasks: 271 total, 1 running, 208 sleeping, 0 stopped, 0 zombie
%Cpu(s): 6.9 us, 1.2 sy, 0.0 ni, 83.8 id, 7.8 wa, 0.0 hi, 0.2 si, 0.0 st
KiB Mem : 3893788 total, 155500 free, 1819980 used, 1918308 buff/cache
KiB Swap: 3999740 total, 3993328 free, 6412 used, 1293612 avail Mem

  PID USER      PR  NI   VIRT    RES    SHR  S  %CPU  %MEM    TIME+  COMMAND
 2164 fadli      20   0 33.009g 375012 272756 S   27.5  9.6   7:19.69 chrome
 2756 fadli      20   0 1.099t 609868 134852 S    2.6 15.7   7:21.85 chrome
 1570 fadli      20   0 3971704 333440 73808 S    0.7  8.6   2:39.20 gnome-shell
  928 root       20   0 558936 17332 13904 S    0.3  0.4   0:01.51 NetworkManager
 1437 fadli      20   0 637964 87680 67024 S    0.3  2.3   1:33.72 Xorg
    1 root       20   0 225428  9148  6612 S    0.0  0.2   0:05.66 systemd
    2 root       20   0      0      0      0 S    0.0  0.0   0:00.00 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
    6 root       0 -20   0      0      0 I    0.0  0.0   0:00.00 kworker/0:0H-kb
    9 root       0 -20   0      0      0 I    0.0  0.0   0:00.00 mm_percpu_wq
   10 root       20   0      0      0      0 S    0.0  0.0   0:00.13 ksoftirqd/0
   11 root       20   0      0      0      0 I    0.0  0.0   0:03.29 rcu_sched
   12 root       rt   0      0      0      0 S    0.0  0.0   0:00.02 migration/0
   13 root      -51   0      0      0      0 S    0.0  0.0   0:00.00 idle_inject/0
   14 root       20   0      0      0      0 S    0.0  0.0   0:00.00 cpuhp/0
   15 root       20   0      0      0      0 S    0.0  0.0   0:00.00 cpuhp/1
   16 root      -51   0      0      0      0 S    0.0  0.0   0:00.00 idle_inject/1
   17 root       rt   0      0      0      0 S    0.0  0.0   0:00.10 migration/1
   18 root       20   0      0      0      0 S    0.0  0.0   0:00.08 ksoftirqd/1
   20 root       0 -20   0      0      0 I    0.0  0.0   0:00.00 kworker/1:0H-kb
   21 root       20   0      0      0      0 S    0.0  0.0   0:00.00 cpuhp/2
   22 root      -51   0      0      0      0 S    0.0  0.0   0:00.00 idle_inject/2
   23 root       rt   0      0      0      0 S    0.0  0.0   0:00.11 migration/2
   24 root       20   0      0      0      0 S    0.0  0.0   0:00.08 ksoftirqd/2
   26 root       0 -20   0      0      0 I    0.0  0.0   0:00.00 kworker/2:0H-kb
   27 root       20   0      0      0      0 S    0.0  0.0   0:00.00 cpuhp/3
   28 root      -51   0      0      0      0 S    0.0  0.0   0:00.00 idle_inject/3

```

top adalah sebuah perintah untuk menunjukkan informasi terkait proses-proses dan threads yang sedang dijalankan oleh kernel linux, selama kernel linux tersebut terus berjalan 'top' juga akan terus berjalan.

13. free

```

fadli@gedlin:~/Tugas1$ free
              total        used        free      shared  buff/cache   available
Mem:         3893788    1825052        353672        455952        1715064        1325964
Swap:        3999740         57100        3942640
fadli@gedlin:~/Tugas1$ free -m
              total        used        free      shared  buff/cache   available
Mem:           3802         1784           347         440         1670         1297
Swap:          3905           55          3850
fadli@gedlin:~/Tugas1$ free -g
              total        used        free      shared  buff/cache   available
Mem:             3             1             0             0             1             1
Swap:             3             0             3
fadli@gedlin:~/Tugas1$

```

free adalah sebuah perintah yang digunakan untuk mengetahui sumber daya RAM yang terpakai/tidak.

14. python3

```
fadli@edelin:~$ python3
Python 3.6.9 (default, Jun 29 2022, 11:45:57)
[GCC 8.4.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> exit()
fadli@edelin:~$
```

python3 untuk menjalankan python di linux. Setelah itu bisa langsung digunakan untuk mengoding.

15. version

```
fadli@edelin:~$ nodejs --version
v8.10.0
fadli@edelin:~$ code --version
Command 'code' not found, but can be installed with:
sudo snap install code
fadli@edelin:~$ python3 --version
Command 'python3' not found, did you mean:
  command 'pytone' from deb pytone
  command 'python3' from deb python3-minimal
Try: sudo apt install <deb name>
fadli@edelin:~$ python3 --version
Python 3.6.9
fadli@edelin:~$
```

version adalah sebuah perintah untuk mengetahui versi dari perangkat lunak.

16. whereis

```
fadli@edelin:~$ whereis python3
python3: /usr/bin/python3 /usr/bin/python3.6 /usr/bin/python3.6m /usr/lib/python3 /usr/lib/python3.6 /usr/lib/python3.7 /etc/python3 /etc/python3.6 /usr/local/lib/python3.6 /usr/include/python3.6m /usr/share/python3 /usr/share/man/man1/python3.1.gz
fadli@edelin:~$
```

whereis adalah sebuah perintah untuk mengetahui direktori dimana berkas/file perangkat lunak di simpan.

17. which

```
code/python3.6m /usr/share/python3 /usr/share/man/man1/python3.1.gz
fadli@edelin:~$ which python3
/usr/bin/python3
fadli@edelin:~$
```

which adalah sebuah perintah untuk mengetahui direktori utama yang menyimpan perangkat lunak.

18. whatis

```
fadli@edelin:~$ whatis python3
python3 (1) - an interpreted, interactive, object-oriented programming language
fadli@edelin:~$
```

whatis adalah sebuah perintah untuk mendefinisikan perangkat lunak tersebut.

19. find dan locate

```
find: unknown predicate -coba_lagi.txt
fadli@edelin:~$ find -/ -iname coba_lagi.txt
find: '/home/fadli/.local/share/Trash/files/.config/enchant': Permission denied
find: '/home/fadli/.dbus': Permission denied
/home/fadli/coba_lagi.txt
/home/fadli/Tugas1/coba_lagi.txt
fadli@edelin:~$
```

find adalah sebuah perintah untuk mencari sebuah berkas/file.

```
code/python3.6m /usr/share/python3 /usr/share/man/man1/python3.1.gz
fadli@edelin:~$ locate coba_lagi.txt
/home/fadli/coba_lagi.txt
/home/fadli/Tugas1/coba_lagi.txt
fadli@edelin:~$
```

locate adalah sebuah perintah untuk mencari pada *prebuilt database*.

20. ping

```
Terminal
Sun 23:43
fadli@edelin: ~
File Edit View Search Terminal Tabs Help
fadli@edelin: ~
fadli@edelin:~$ ping google.com
PING google.com (sl-in-f100.1e100.net (2404:6800:4003:c05::64)) 56 data bytes
64 bytes from sl-in-f100.1e100.net (2404:6800:4003:c05::64): icmp_seq=1 ttl=58 time=38.1 ms
64 bytes from sl-in-f100.1e100.net (2404:6800:4003:c05::64): icmp_seq=2 ttl=58 time=35.2 ms
64 bytes from sl-in-f100.1e100.net (2404:6800:4003:c05::64): icmp_seq=3 ttl=58 time=33.2 ms
64 bytes from sl-in-f100.1e100.net (2404:6800:4003:c05::64): icmp_seq=4 ttl=58 time=35.0 ms
64 bytes from sl-in-f100.1e100.net (2404:6800:4003:c05::64): icmp_seq=5 ttl=58 time=36.1 ms
64 bytes from sl-in-f100.1e100.net (2404:6800:4003:c05::64): icmp_seq=6 ttl=58 time=34.4 ms
64 bytes from sl-in-f100.1e100.net (2404:6800:4003:c05::64): icmp_seq=7 ttl=58 time=40.3 ms
64 bytes from sl-in-f100.1e100.net (2404:6800:4003:c05::64): icmp_seq=8 ttl=58 time=39.2 ms
64 bytes from sl-in-f100.1e100.net (2404:6800:4003:c05::64): icmp_seq=9 ttl=58 time=37.7 ms
64 bytes from sl-in-f100.1e100.net (2404:6800:4003:c05::64): icmp_seq=10 ttl=58 time=33.4 ms
64 bytes from sl-in-f100.1e100.net (2404:6800:4003:c05::64): icmp_seq=11 ttl=58 time=40.8 ms
64 bytes from sl-in-f100.1e100.net (2404:6800:4003:c05::64): icmp_seq=12 ttl=58 time=35.4 ms
64 bytes from sl-in-f100.1e100.net (2404:6800:4003:c05::64): icmp_seq=13 ttl=58 time=40.9 ms
64 bytes from sl-in-f100.1e100.net (2404:6800:4003:c05::64): icmp_seq=14 ttl=58 time=39.7 ms
64 bytes from sl-in-f100.1e100.net (2404:6800:4003:c05::64): icmp_seq=15 ttl=58 time=33.2 ms
64 bytes from sl-in-f100.1e100.net (2404:6800:4003:c05::64): icmp_seq=16 ttl=58 time=33.3 ms
64 bytes from sl-in-f100.1e100.net (2404:6800:4003:c05::64): icmp_seq=17 ttl=58 time=33.2 ms
64 bytes from sl-in-f100.1e100.net (2404:6800:4003:c05::64): icmp_seq=18 ttl=58 time=33.1 ms
64 bytes from sl-in-f100.1e100.net (2404:6800:4003:c05::64): icmp_seq=19 ttl=58 time=36.7 ms
64 bytes from sl-in-f100.1e100.net (2404:6800:4003:c05::64): icmp_seq=20 ttl=58 time=33.3 ms
64 bytes from sl-in-f100.1e100.net (2404:6800:4003:c05::64): icmp_seq=21 ttl=58 time=33.2 ms
64 bytes from sl-in-f100.1e100.net (2404:6800:4003:c05::64): icmp_seq=22 ttl=58 time=33.4 ms
64 bytes from sl-in-f100.1e100.net (2404:6800:4003:c05::64): icmp_seq=23 ttl=58 time=35.1 ms
64 bytes from sl-in-f100.1e100.net (2404:6800:4003:c05::64): icmp_seq=24 ttl=58 time=33.6 ms
64 bytes from sl-in-f100.1e100.net (2404:6800:4003:c05::64): icmp_seq=25 ttl=58 time=55.9 ms
64 bytes from sl-in-f100.1e100.net (2404:6800:4003:c05::64): icmp_seq=26 ttl=58 time=87.2 ms
64 bytes from sl-in-f100.1e100.net (2404:6800:4003:c05::64): icmp_seq=27 ttl=58 time=59.5 ms
64 bytes from sl-in-f100.1e100.net (2404:6800:4003:c05::64): icmp_seq=28 ttl=58 time=33.2 ms
64 bytes from sl-in-f100.1e100.net (2404:6800:4003:c05::64): icmp_seq=29 ttl=58 time=45.8 ms
64 bytes from sl-in-f100.1e100.net (2404:6800:4003:c05::64): icmp_seq=30 ttl=58 time=33.5 ms
64 bytes from sl-in-f100.1e100.net (2404:6800:4003:c05::64): icmp_seq=31 ttl=58 time=42.8 ms
64 bytes from sl-in-f100.1e100.net (2404:6800:4003:c05::64): icmp_seq=32 ttl=58 time=55.7 ms
64 bytes from sl-in-f100.1e100.net (2404:6800:4003:c05::64): icmp_seq=33 ttl=58 time=33.2 ms
64 bytes from sl-in-f100.1e100.net (2404:6800:4003:c05::64): icmp_seq=34 ttl=58 time=33.3 ms
^C
--- google.com ping statistics ---
34 packets transmitted, 34 received, 0% packet loss, time 33050ms
rtt min/avg/max/mdev = 33.103/39.393/87.227/10.741 ms
fadli@edelin:~$
```

ping adalah sebuah perintah yang digunakan untuk mengecek koneksi internet dengan sebuah alamat IP, website dll.

LATIHAN SOAL!

Buatlah script python pada terminal linux dan script bash.

Tugas1.py

```
fadli@edelin:~$ python3
Python 3.6.9 (default, Jun 29 2022, 11:45:57)
[GCC 8.4.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> exit()
fadli@edelin:~$ nano Tugas1.py
fadli@edelin:~$ python3 Tugas1.py
-----
Tugas 1 SISOP Kelas-A
-----
Nama : Edelin Fortuna
NPM : 21083010087
-----
notes :
-----
Halo Dunia!
Ini adalah skrip Bash Pertamaku di Linux
fadli@edelin:~$
```

Python di linux jika ingin membuat script tetap menggunakan print, dalam kurung dan tanda petik. print('halo dunia')

Tugas1.sh

```
coba_lagi.txt Tugas1.py
fadli@edelin:~/Tugas1$ nano Tugas1.sh
fadli@edelin:~/Tugas1$ ls
coba_lagi.txt Tugas1.py Tugas1.sh
fadli@edelin:~/Tugas1$ bash Tugas1.sh
Halo dunia!
Ini adalah skrip Bash pertamaku di Linux!
fadli@edelin:~/Tugas1$
```

Jika ingin membuat script Bash yang diketik adalah 'echo' bukan 'print', dan hanya menggunakan tanda petik tanpa tanda kurung. echo 'halo dunia'

Cara push tugas ke github menggunakan linux

```
fadli@edelin:~/Tugas1$ sudo apt-get install git
[sudo] password for fadli:
Reading package lists... Done
Building dependency tree
Reading state information... Done
git is already the newest version (1:2.17.1-1ubuntu0.12).
0 upgraded, 0 newly installed, 0 to remove and 251 not upgraded.
fadli@edelin:~/Tugas1$ git --version
git version 2.17.1
fadli@edelin:~/Tugas1$ ls
coba_lagi.txt Tugas1.py Tugas1.sh
fadli@edelin:~/Tugas1$ git init
Initialized empty Git repository in /home/fadli/Tugas1/.git/
fadli@edelin:~/Tugas1$ git status
On branch master

no commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)

    Tugas1.py
    Tugas1.sh
    coba_lagi.txt

nothing added to commit but untracked files present (use "git add" to track)
fadli@edelin:~/Tugas1$ git add .
fadli@edelin:~/Tugas1$ git status
On branch master

no commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)

    new file:   Tugas1.py
    new file:   Tugas1.sh
    new file:   coba_lagi.txt

fadli@edelin:~/Tugas1$ git commit -m "first commit"
[master (root-commit) 3521fb2] first commit
3 files changed, 14 insertions(+)
create mode 100644 Tugas1.py
create mode 100644 Tugas1.sh
create mode 100644 coba_lagi.txt
fadli@edelin:~/Tugas1$ git remote add origin https://github.com/edelinnf/21083010087.git
fadli@edelin:~/Tugas1$ git push -u origin master
Username for 'https://github.com': git push -u origin master
Password for 'https://git push -u origin master@github.com':
remote: Support for password authentication was removed on August 13, 2021.
remote: Please see https://docs.github.com/en/get-started/getting-started-with-git/about-remote-repos
itories#cloning-with-https-urls for information on currently recommended modes of authentication.
fatal: Authentication failed for 'https://github.com/edelinnf/21083010087.git/'
fadli@edelin:~/Tugas1$ git push -u origin master
Username for 'https://github.com': edelinnf
Password for 'https://edelinnf@github.com':
Counting objects: 5, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (4/4), done.
Writing objects: 100% (5/5), 530 bytes | 530.00 KiB/s, done.
Total 5 (delta 0), reused 0 (delta 0)
To https://github.com/edelinnf/21083010087.git
 * [new branch] master -> master
Branch 'master' set up to track remote branch 'master' from 'origin'.
fadli@edelin:~/Tugas1$
```