JAWABAN :

1. Generate private/public key pair using **Elliptic Curve Digital Signature Algorithm** with "**NAR22-1**" as password.

ssh-keygen -t ecdsa *//ssh-keygen adalah alat untuk membuat pasangan kunci otentikasi baru untuk SSH. Pasangan kunci tersebut digunakan untuk mengotomatisasi login, sistem masuk tunggal, dan untuk mengautentikasi host.-t untuk memilih algoritma yang akan digunakan dan ecdsa adalah Elliptic Curve Digital Signature Algorithm yang ingin digunakan.*

```
prk@ubuntu:~$ ssh-keygen -t ecdsa
Generating public/private ecdsa key pair.
Enter file in which to save the key (/home/prk/.ssh/id_ecdsa):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/prk/.ssh/id_ecdsa
Your public key has been saved in /home/prk/.ssh/id_ecdsa.pub
The key fingerprint is:
SHA256:ZZAHYleM1rF2KVhprp/nDns+18ClLuh/qkiuDun1SK4 prk@ubuntu
The key's randomart image is:
+---[ECDSA 256]---+
|      o +B+o     |
|     . o++*. .   |
|       ..+* o    |
|        +.o    . |
|        S.   . o |
|     .  .     +  |
|    o o ...o . o |
|   . = = .+o= + .|
|    Eo=.+.+O**   |
+----[SHA256]-----+
prk@ubuntu:~$
```

2. Connect to the server (with your own IP Address and user).

sudo apt update

sudo apt install openssh-server

sudo systemctl status ssh *//check apakah openssh-server sudah terinstall*

ip a *//check ip*

ssh user@ip_address *//connect to server dengan IP address dan user*

8. Make a bash script to rename .png file to .jpg file with these conditions:

- The script can accept multiple files.
- If there are no arguments that are supplied, return 1 as the exit code.
- By default, the script will use bash.
- The script can escape spaces in the file name. (e.g., "hello world.png" will become "hello world.jpg").
- Validate that the file must exists.

#!/bin/bash

for f in *.png ; do *//mengambil semua file yang memiliki extension png*

   mv "$f" "${f/%.png/.jpg}" *//merename file yang memiliki extension png menjadi jpg dengan mv command*

done

12. You have created your scripts, now you need to upload all your **bash scripts** and **explanations**, now you are asked to put it into **Github**. Here are some specifications:

- Create a **Github Account** with a username that you picked, create a project with format:
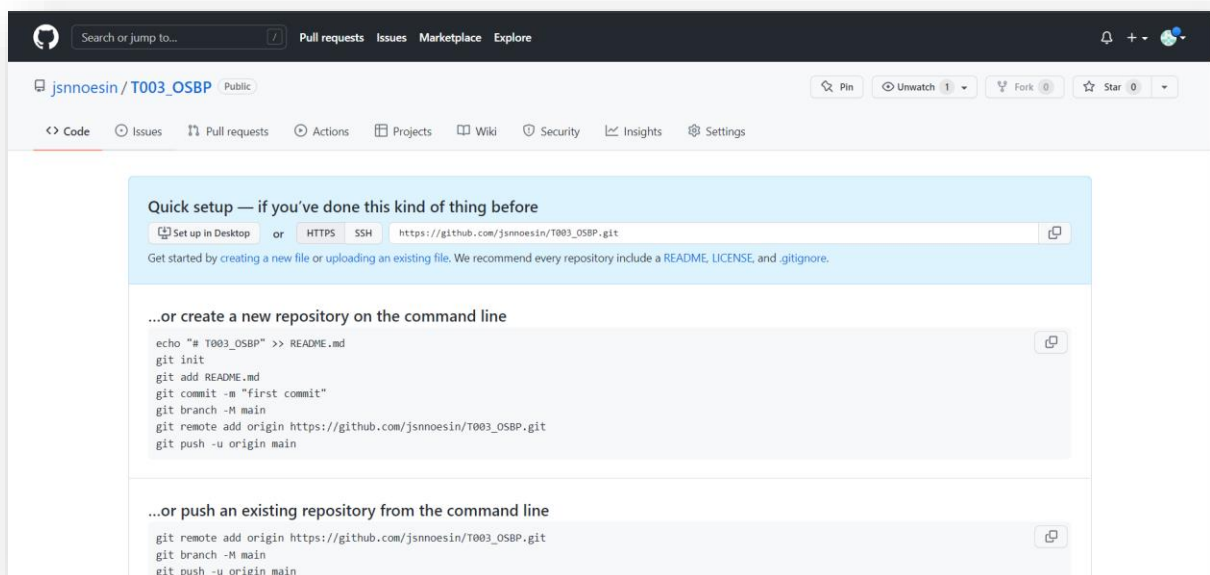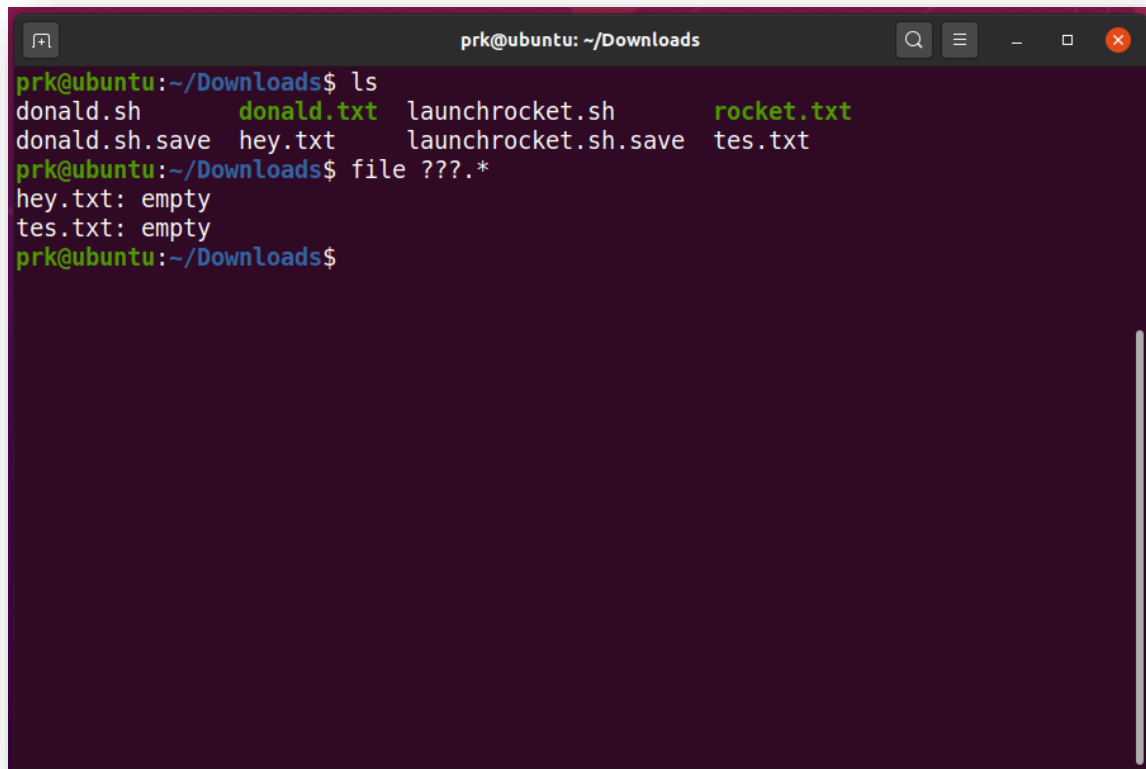
TXXX_OSBP
Where: TXXX: Your trainee number

- Set your repository visibility to **public**.
- Create a branch based on:
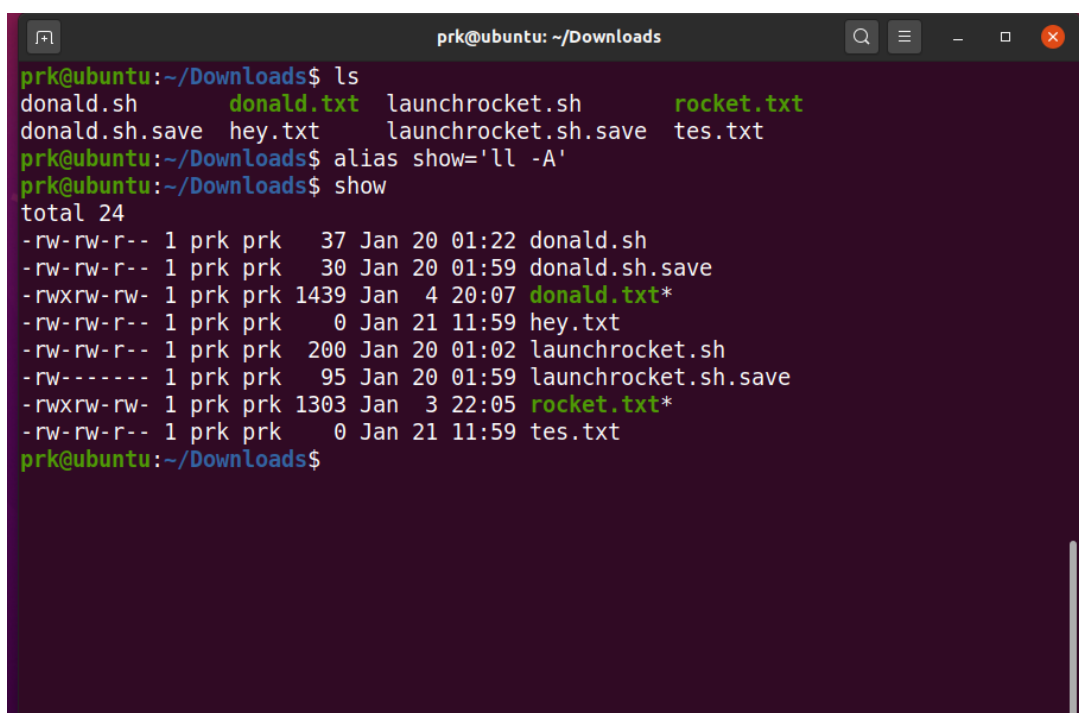
T003 Jason Github : *https://github.com/jsnnoesin/T003_OSBP*

15. Display all file types in current directory that only has 3 characters with one command only. (You cannot use find).

file ???.* *//file menampilkan file dan brief isinya lalu bisa tambahkan extension di belakangnya arti ??? disini berarti 3 kata dan * adalah semua tipe file.*

16. Make alias for a command "ll" that are used to display all file and hidden file in the directory. (Without current directory and parent directory).
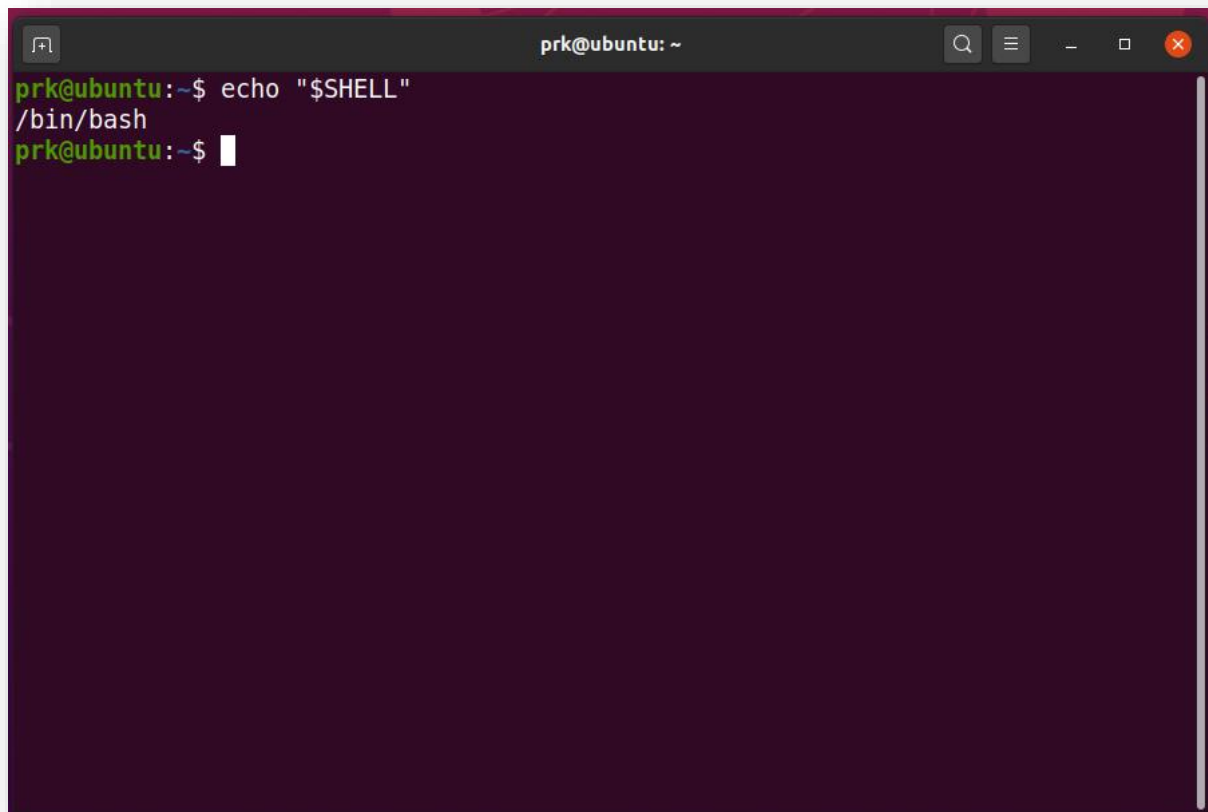
20. Check what kind of **UNIX Shell** that you use currently with **one command**.

// pada kasus ini UNIX Shell yang digunakan adalah BASH (Bourne Again Shell)

echo "$SHELL"

```
prk@ubuntu:~$ echo "$SHELL"
/bin/bash
prk@ubuntu:~$
```