# National Textile University, Faisalabad



## **Department of Computer Science**

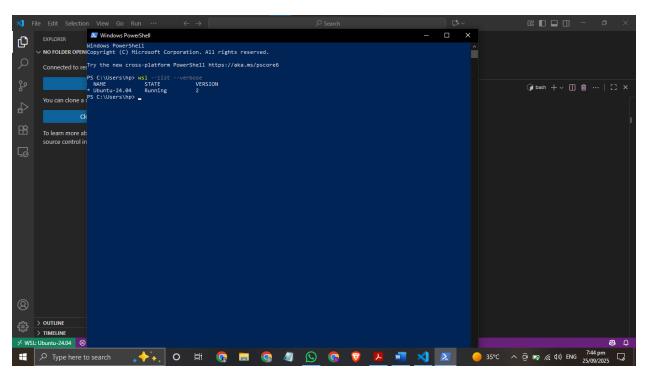
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Course	Operating System
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<b>Submission Date</b>	25/09/2025
Lab No.	1 (Home work)

### Lab No. 1 (Home work)

### Task 1 Verify WSL2 and Ubuntu installation

Verify installation by running the following command in powershell:

I had already installed the wsl2 on my laptop before 1<sup>st</sup> lab so it is okay here the screenshot



### Task 2 Git & GitHub SSH Setup:

```
Configure Git
Set your name and email:
git config --global user.name "Your Name"
git config --global user.email "your@email.com"
```

• By using the above command I set up my username and email with git hub and checked that weather it is really done

#### Show your config:

```
git config --list
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

dawood@DESKTOP-V4SDVD9:-$ git config --list user.name:DawoodSaif user.email-cheemadawodd@@mail.com
dawood@DESKTOP-V4SDVD9:-$
```

### **Task 3: Generate SSH Keys;**

Now in this task I have to generate ssh key and paste it to git hub that will help me to clone repositories and push and pop my code

For this I have Run following command:

```
ssh-keygen -t ed25519
```

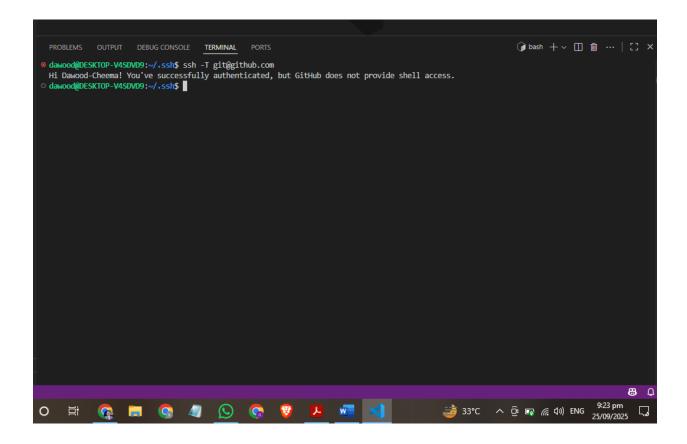
Now I Copy the public key by unsing this command that will show me my key:

```
cat ~/.ssh/id ed25519.pub
```

Added this key to my GitHub account under Settings  $\rightarrow$  SSH and GPG keys.

### **Task 4: Test Connection**

In this now we have to see wearher the link has been established or not here is its screenshot



### **Task 5: Install Build Tools**

Before writing C programs, install the build-essential package which contains gcc, g++, and other tools required for compiling. Run:

sudo apt install build-essential

Verify installation by checking the version of gcc:

gcc -version

```
dawood@DESKTOP-V4SDVD9:~/Lab01-hometask$ gcc --version gcc (Ubuntu 13.3.0-6ubuntu2~24.04) 13.3.0 Copyright (C) 2023 Free Software Foundation, Inc. This is free software; see the source for copying conditions. There is NO warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

dawood@DESKTOP-V4SDVD9:~/Lab01-hometask$
```

### Task 6: How to run a c program:

First write a C program in a file with .c extension.

- Here how I created .c file firstly I cloned my repository from github by using its command
- then I make the folder on my github using some command and then created .c file and run the code

gcc lab1-task1.c -o lab1-task1.out

• and then to show output I run:

./lab1-task1.out

Here is the screenshot of the code: