

# National Textile University **Department of Computer Science**

**Subject Operating System** 

**Submitted to:** 

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Home\_Task 01

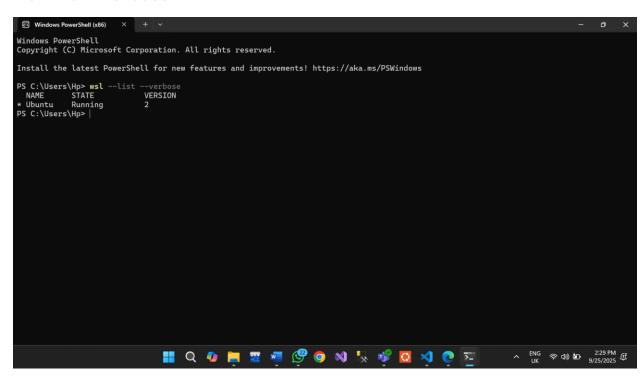
Semester 5th

#### Part A:

# WSL2 & Ubuntu Setup 1.

1-Verify WSL2 and Ubuntu installation Verify installation by running the following command in powershell:

wsl --list-verbose



# 2. Update Ubuntu environment

Run the following command in Ubuntu:

sudo apt update && sudo apt upgrade -y

# Part B: Git & GitHub SSH

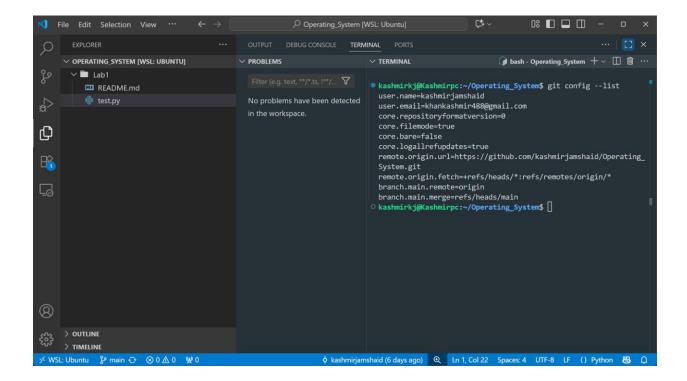
# **Setup 1. Configure Git Set your name and email:**

git config --global user.name "Your Name"

git config --global user.email "your@email.com

# **Show your config:**

git config -list



# 2. Generate SSH Keys

Run:

ssh-keygen -t ed25519

Copy the public key:

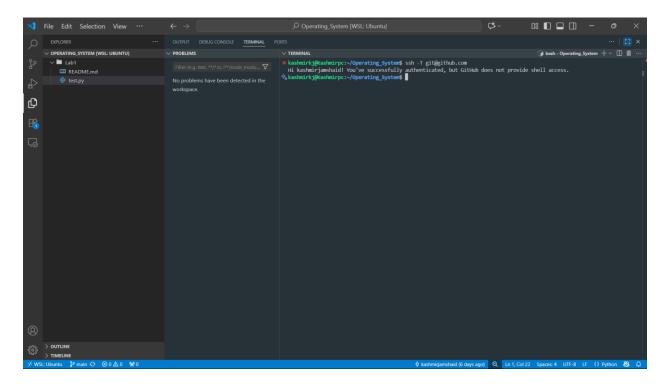
cat ~/.ssh/id\_ed25519.pub

Add this key to your GitHub account under

Settings → SSH and GPG keys

#### 3. Test Connection

ssh-T git@github.com



#### Part C:

C Programming Environment & Practice

#### **Step 1: 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

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| Comparison | Section | Active | Activ
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#### Verify installation by checking the version of gcc:

#### gcc -version

### Step 2:

# How to run a C Program

- First write a C program in a file with .c extension
- Compile the file using: gcc filename.c -o filename.out
- Execute it using: ./filename.out

#### Step 3:

Write a C Program Write a simple C program of your choice. It can be a Hello World program or any other.

