Mini Project 3
Gomoku AI

WSL Installation Tutorial

Outline

- Introduction
- Install WSL
- Setup WSL
- Install build-essential
- Compile in WSL
- Execute in WSL

Introduction

- We have noticed that executing the project on Windows is much slower than on Mac or Linux
- There also exists some serious problems like file remove error or baselines got killed too early and failed to output action
- For Windows users, we recommend using WSL in this project to avoid these problems

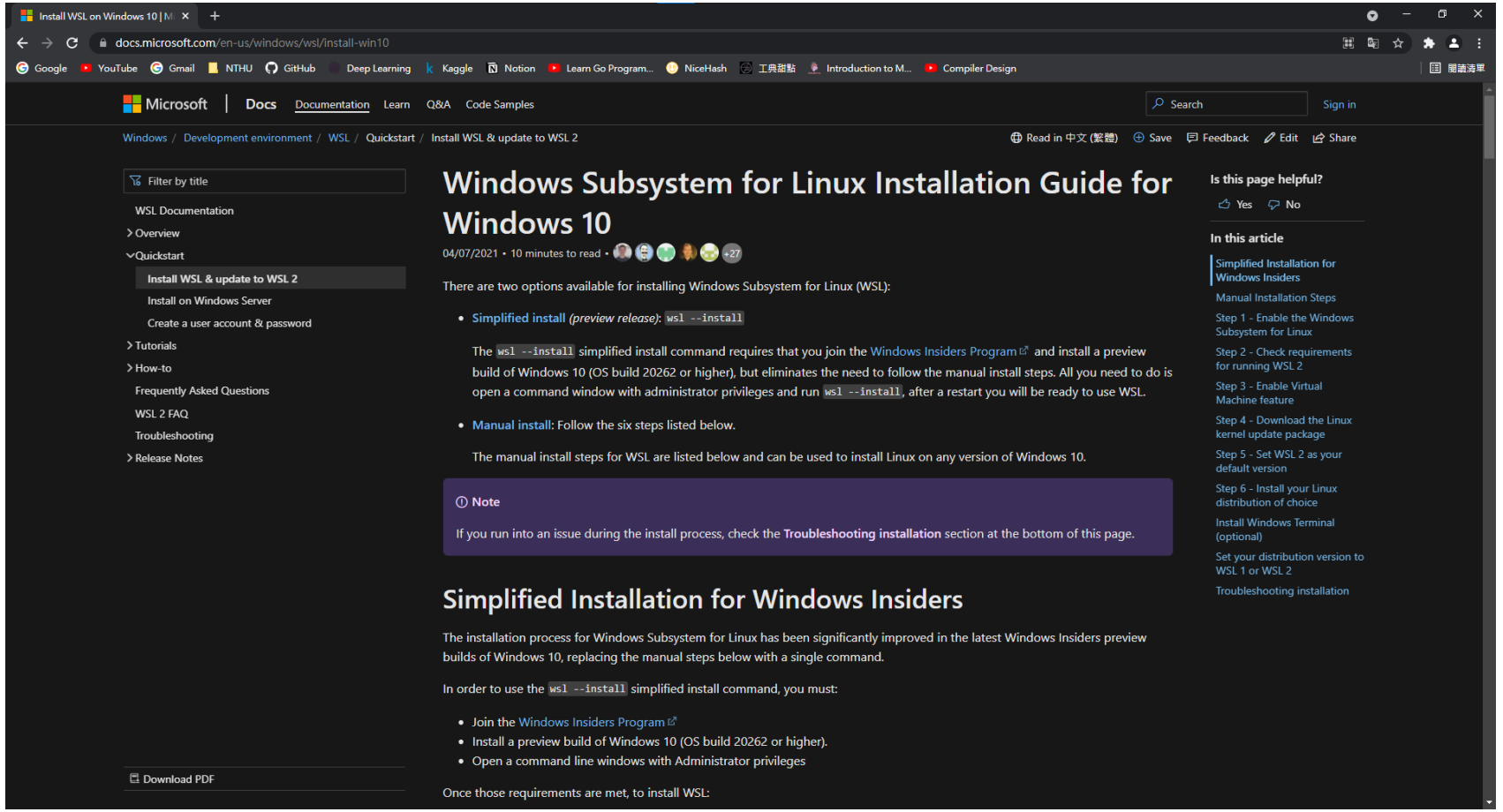
Windows Subsystem for Linux

- WSL enables your Windows computer to run Linux
- Since the final evaluation will take place on a machine with Linux environment, using WSL during development is a good choice
- Using WSL makes your code execute in normal speed
  - Without the lags in Windows
- Also prevents the remove file and baseline invalid move error

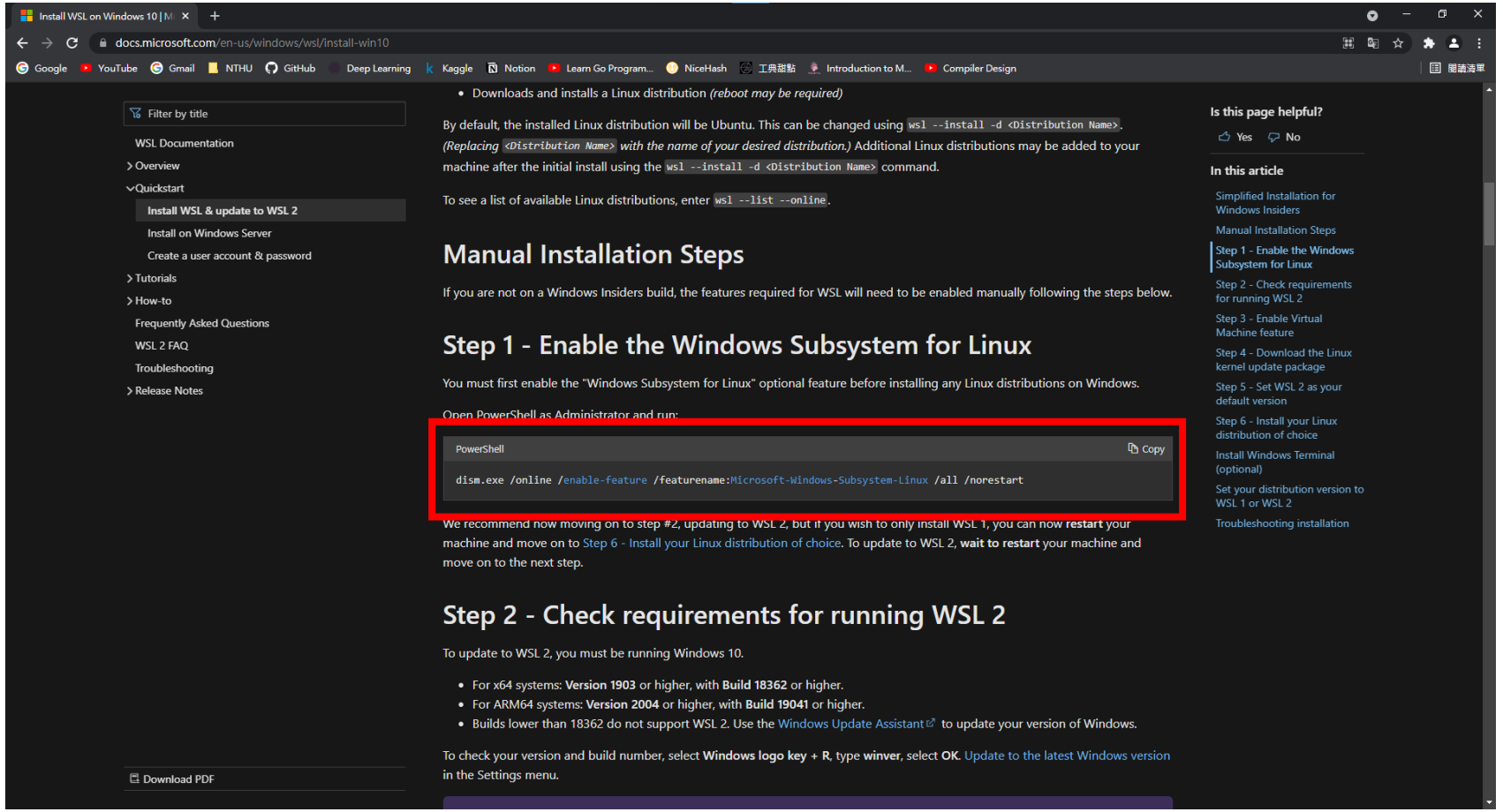
Outline

- Introduction
- Install WSL
- Setup WSL
- Install build-essential
- Compile in WSL
- Execute in WSL

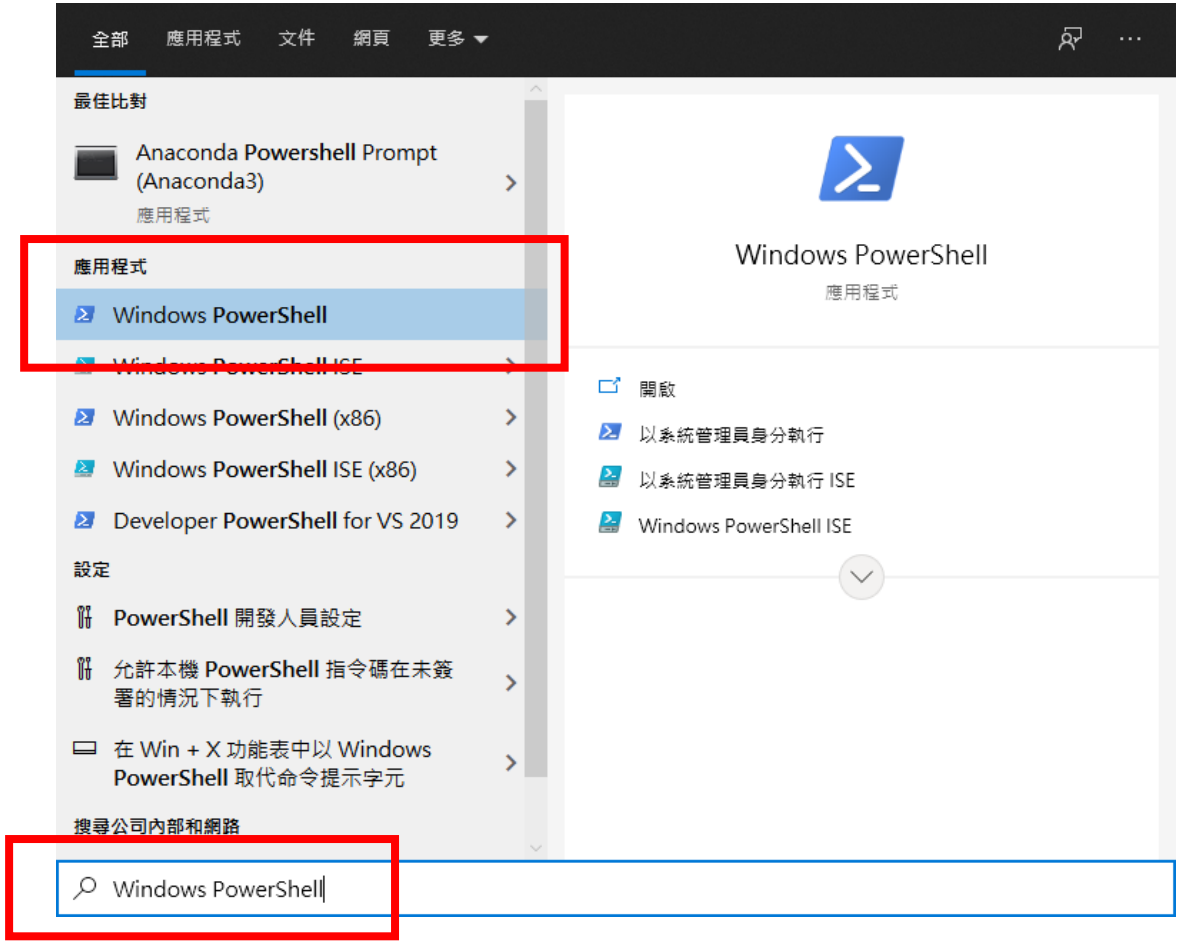
Go to WSL Installation Guide



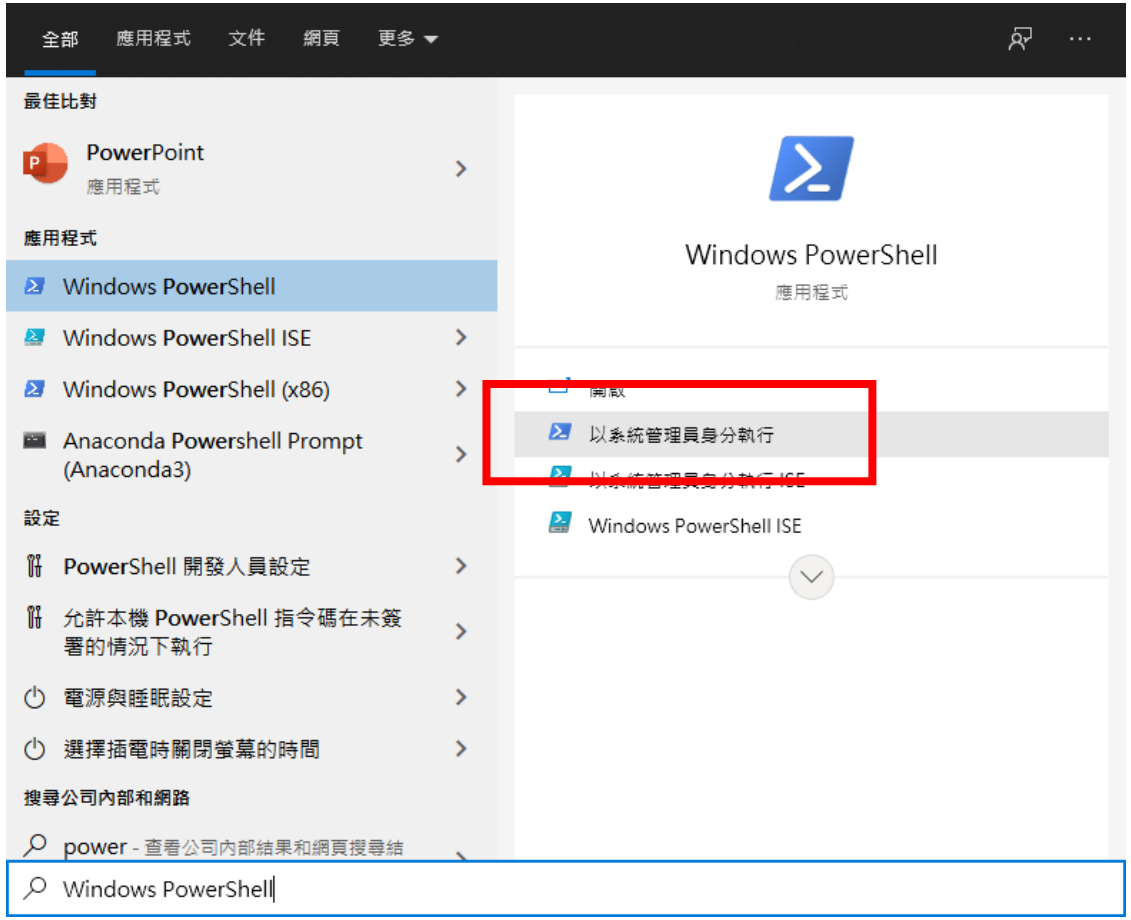
Copy the command in step 1



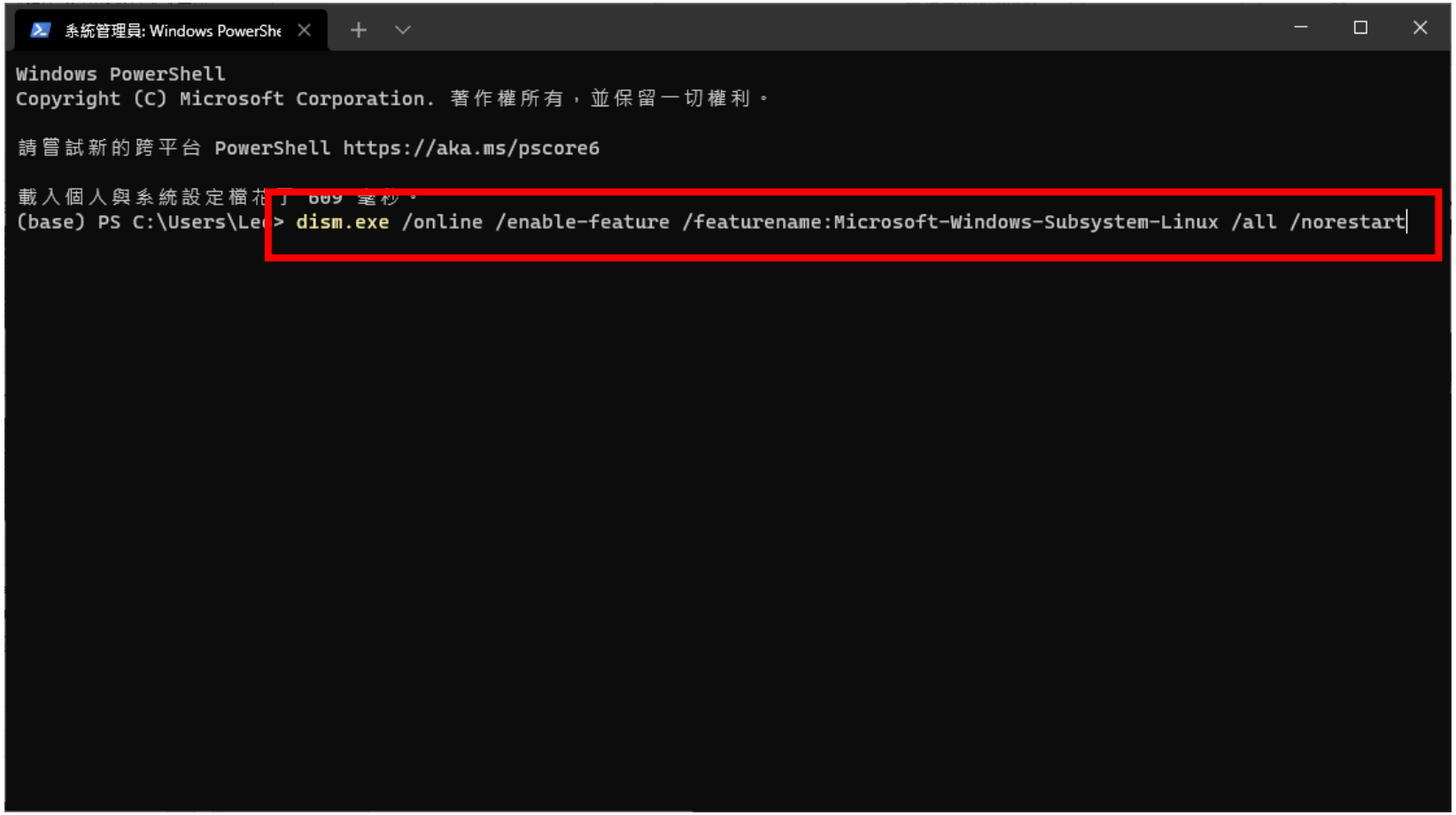
Search for PowerShell with search tool



Open PowerShell as Administrator



Paste the command and press enter



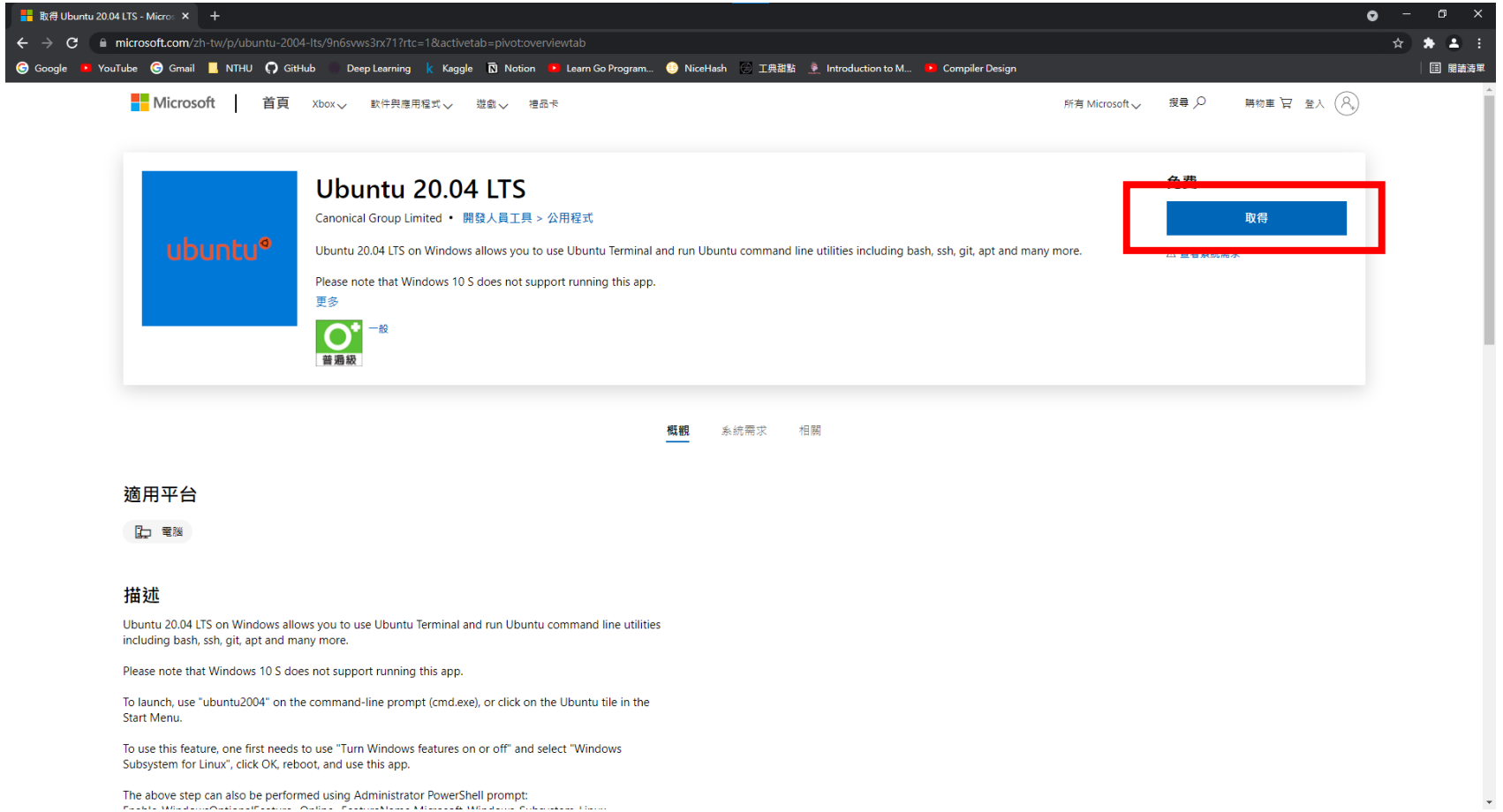
Restart your computer

- Since WSL 1 is enough for this project, this slide will not go through step 2 ~ step 5 of the installation guide

- Restart your computer before you proceed to next step
  - If there is “reboot” and “update and reboot”, click “update and reboot”

- If you want to install WSL 2, you can follow the installation guide to complete step 2 ~ step 5 then restart your computer

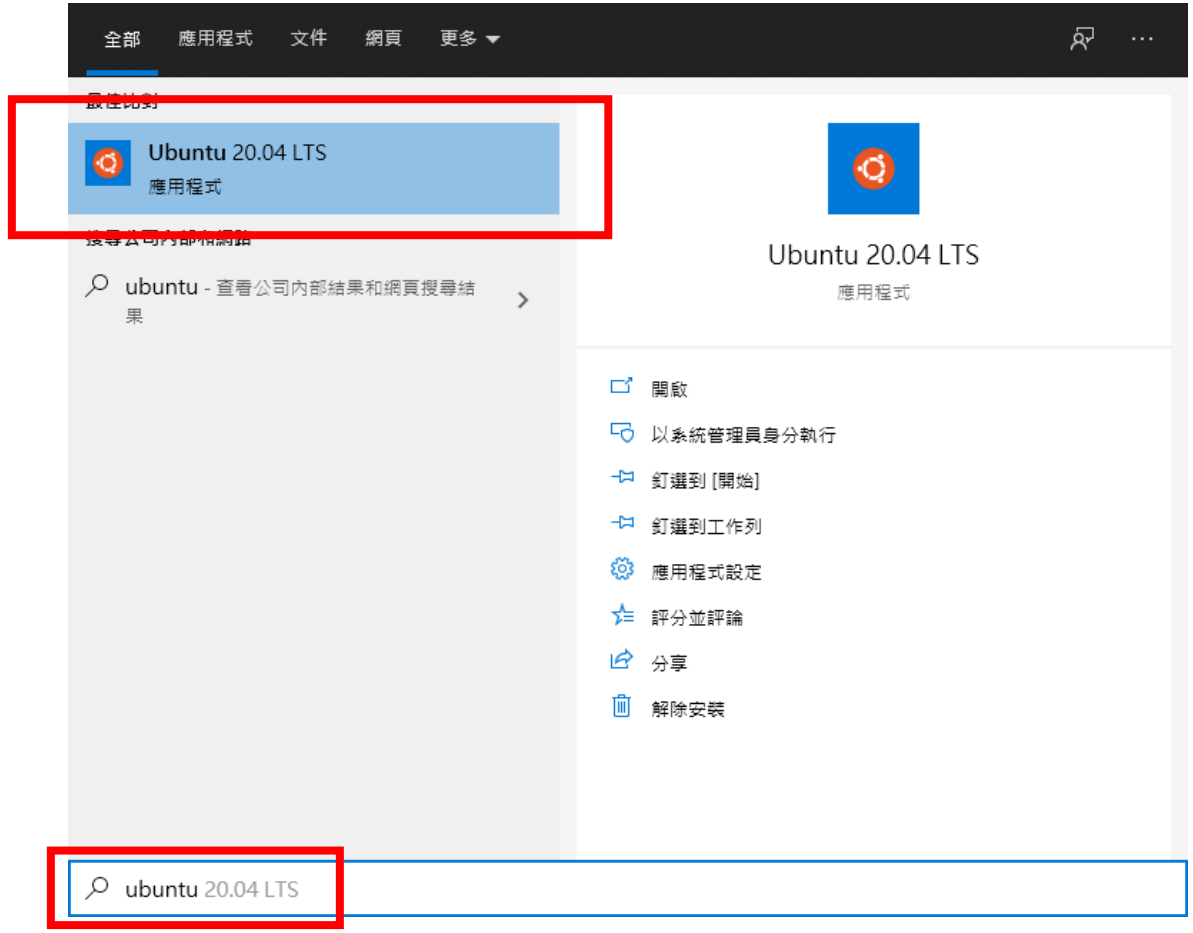
Install Ubuntu 20.04 LTS



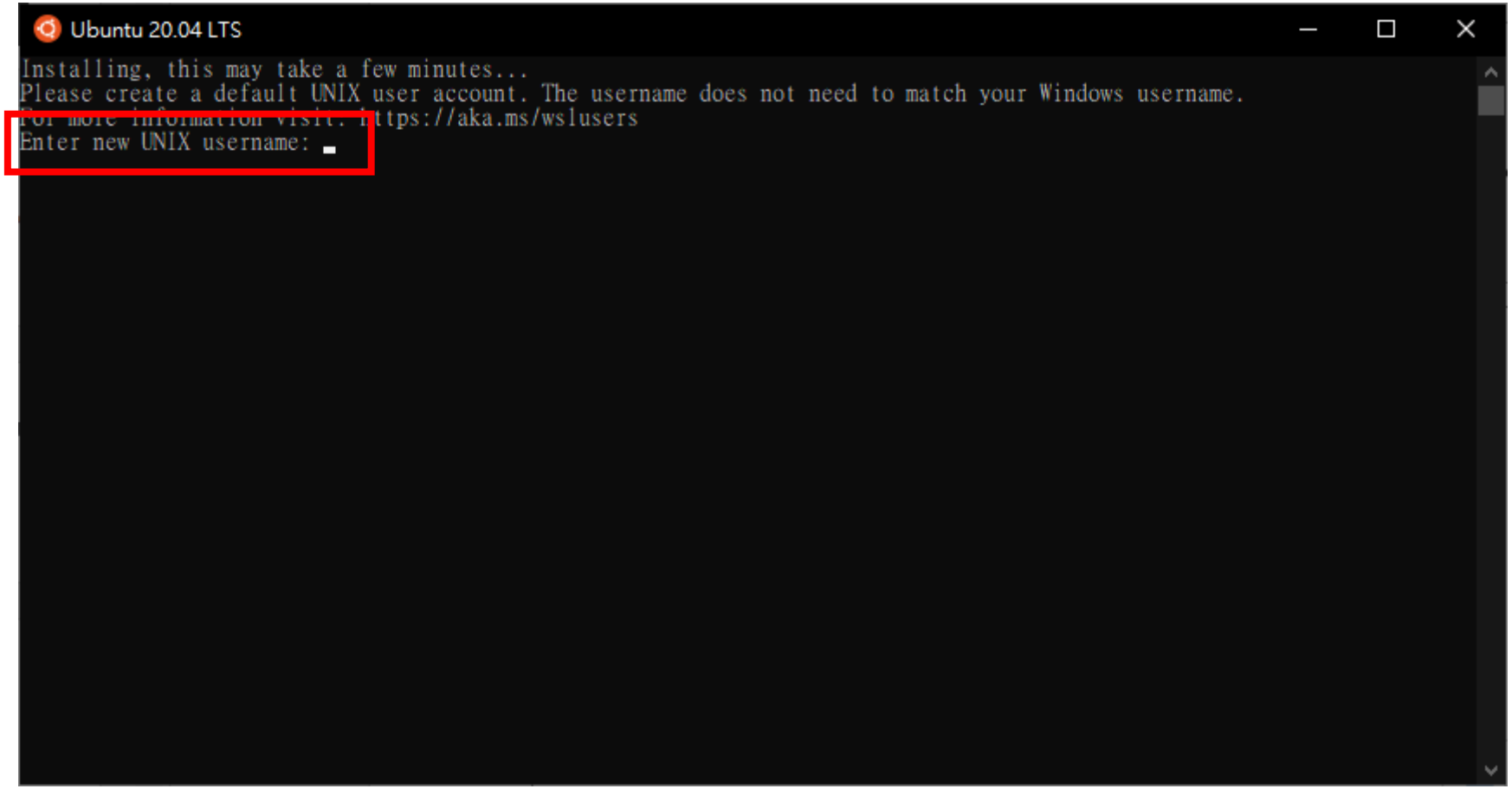
Outline

- Introduction
- Install WSL
- Setup WSL
- Install build-essential
- Compile in WSL
- Execute in WSL

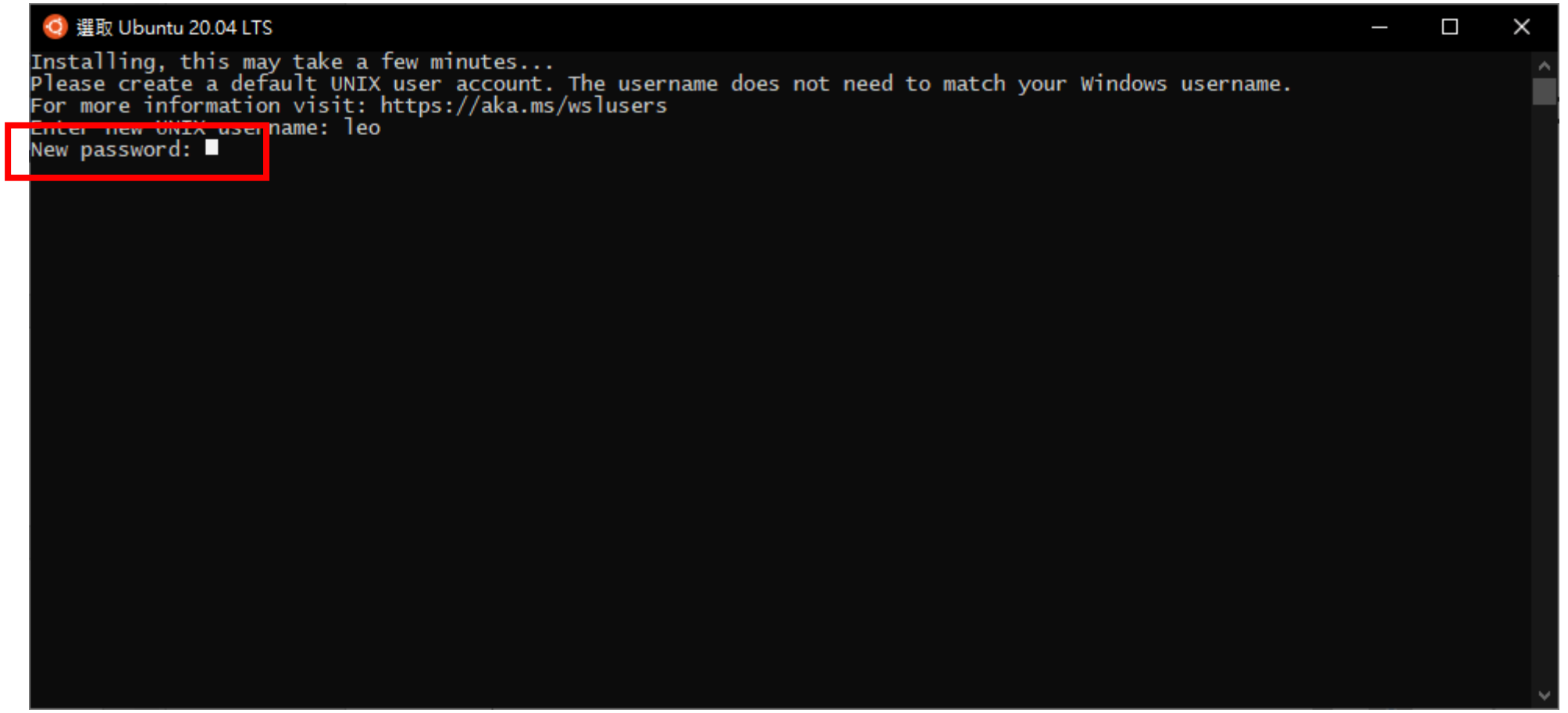
Search for Ubuntu and start it



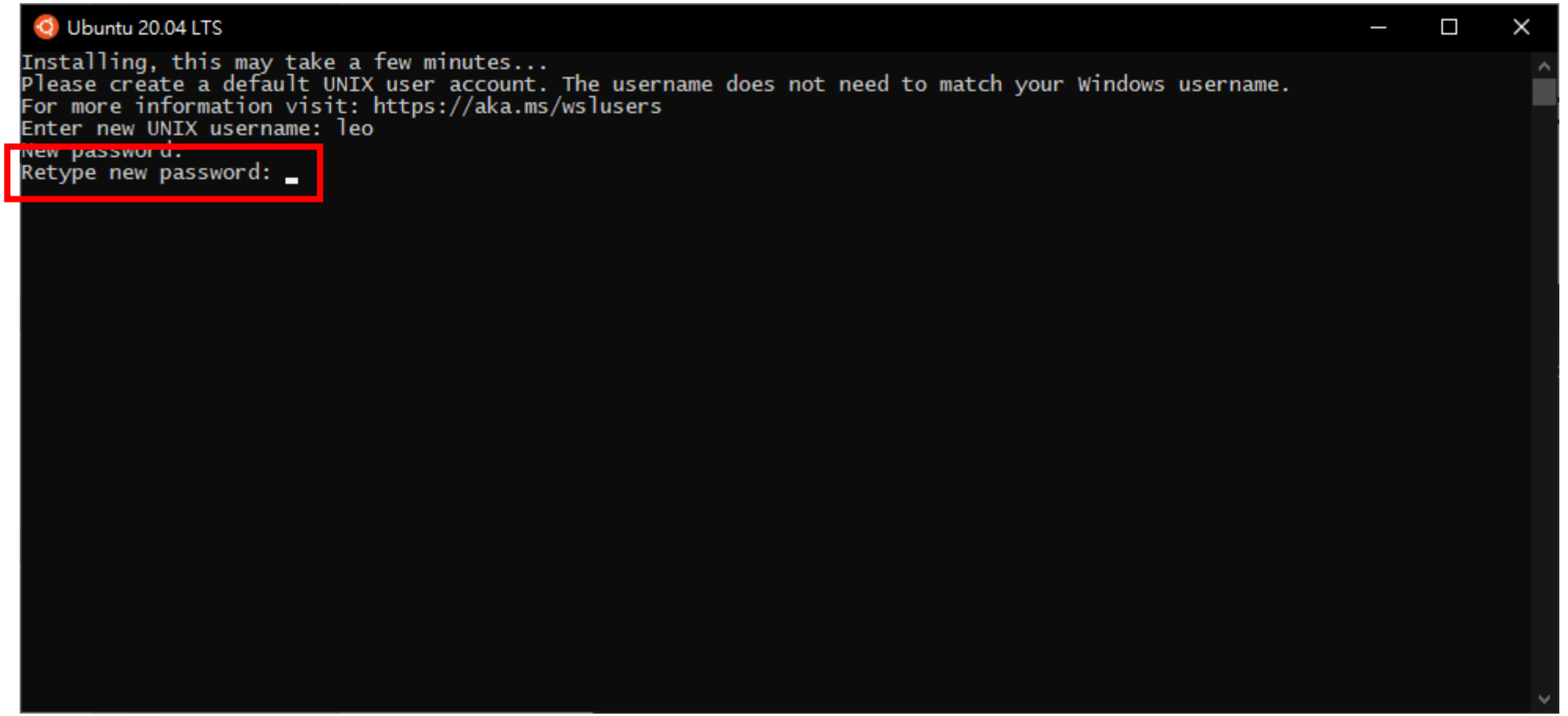
Enter your new username for Ubuntu



Enter your new password for Ubuntu



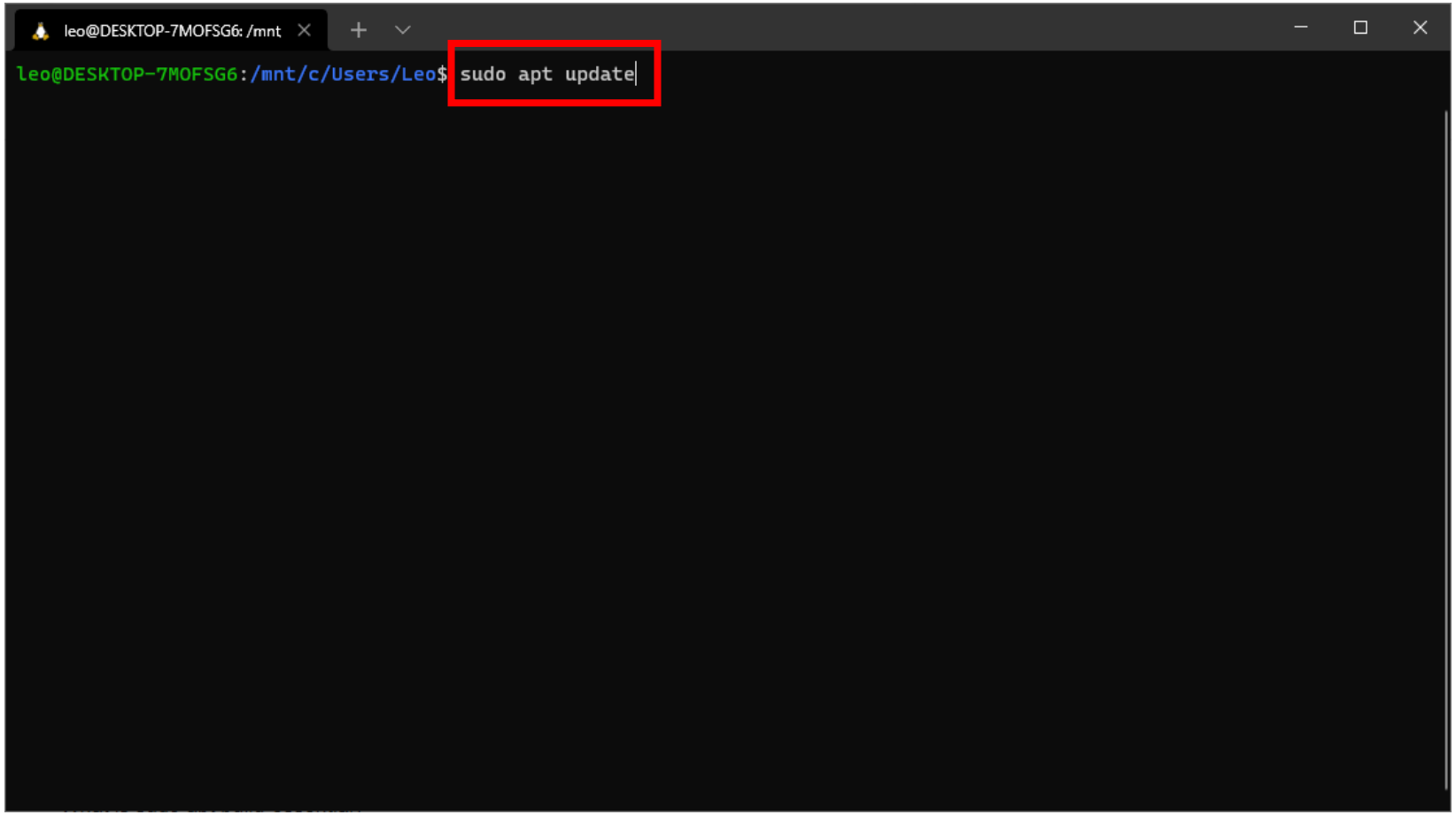
Validate your new password



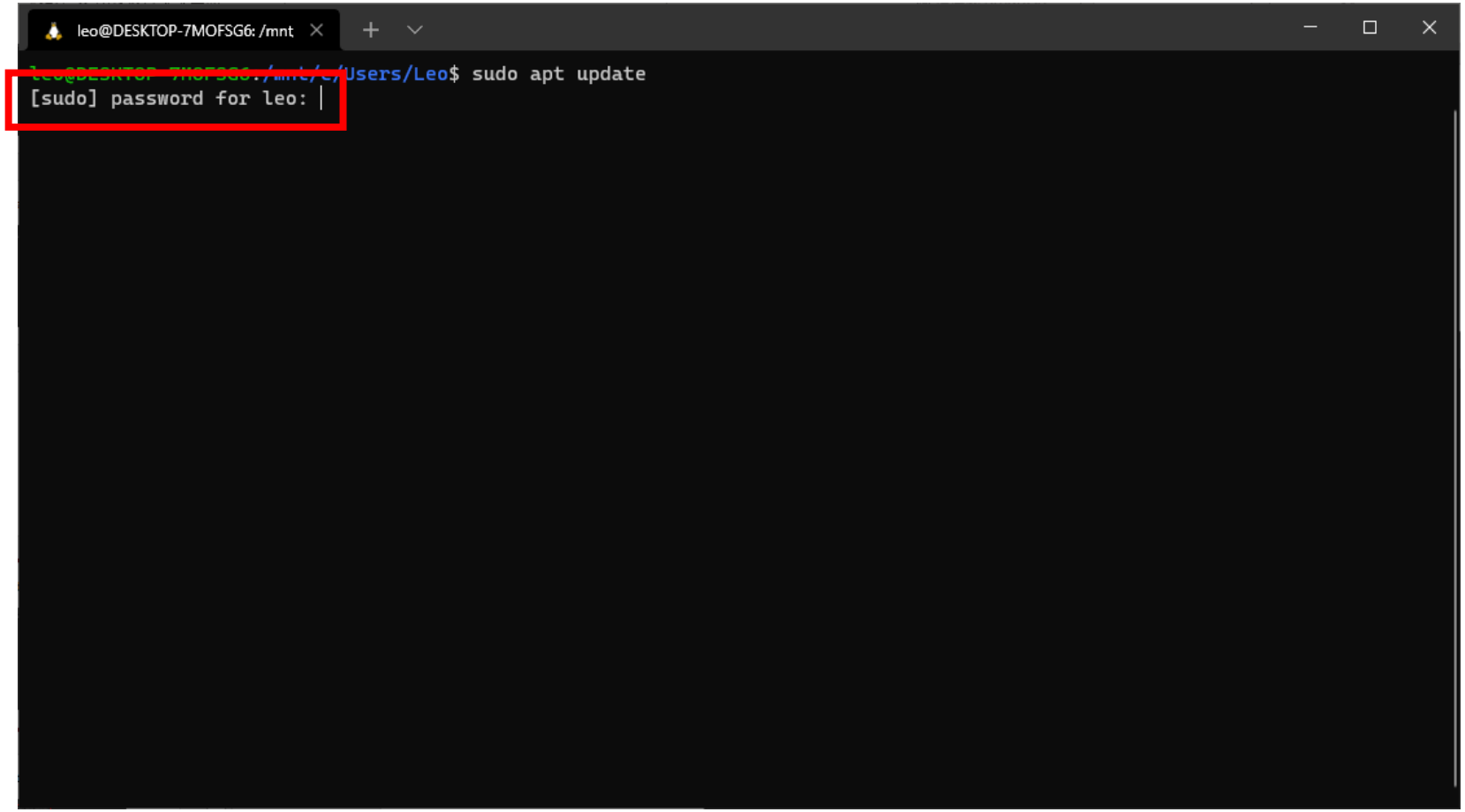
Outline

- Introduction
- Install WSL
- Setup WSL
- Install build-essential
- Compile in WSL
- Execute in WSL

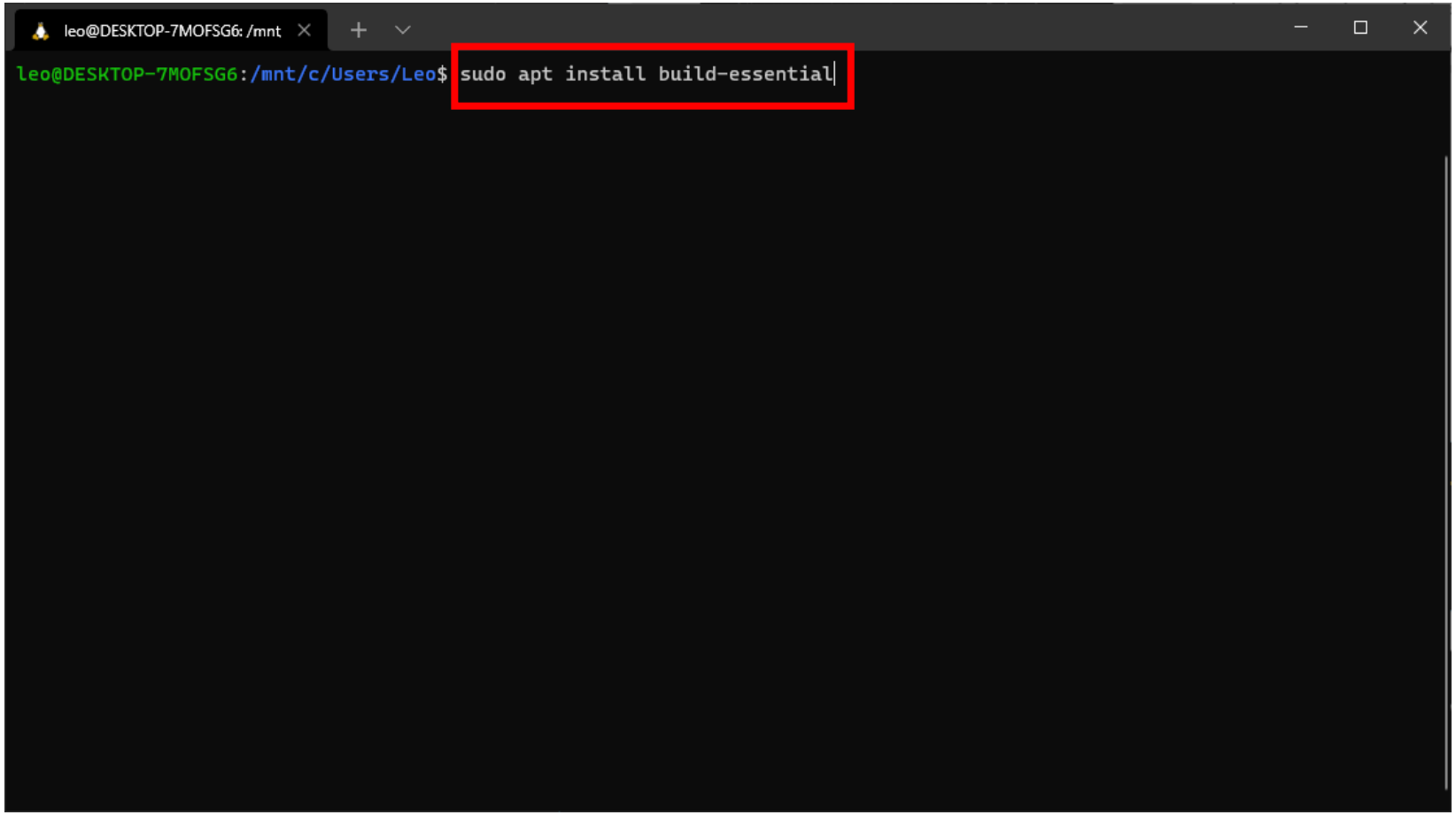
Enter **“sudo apt update”**



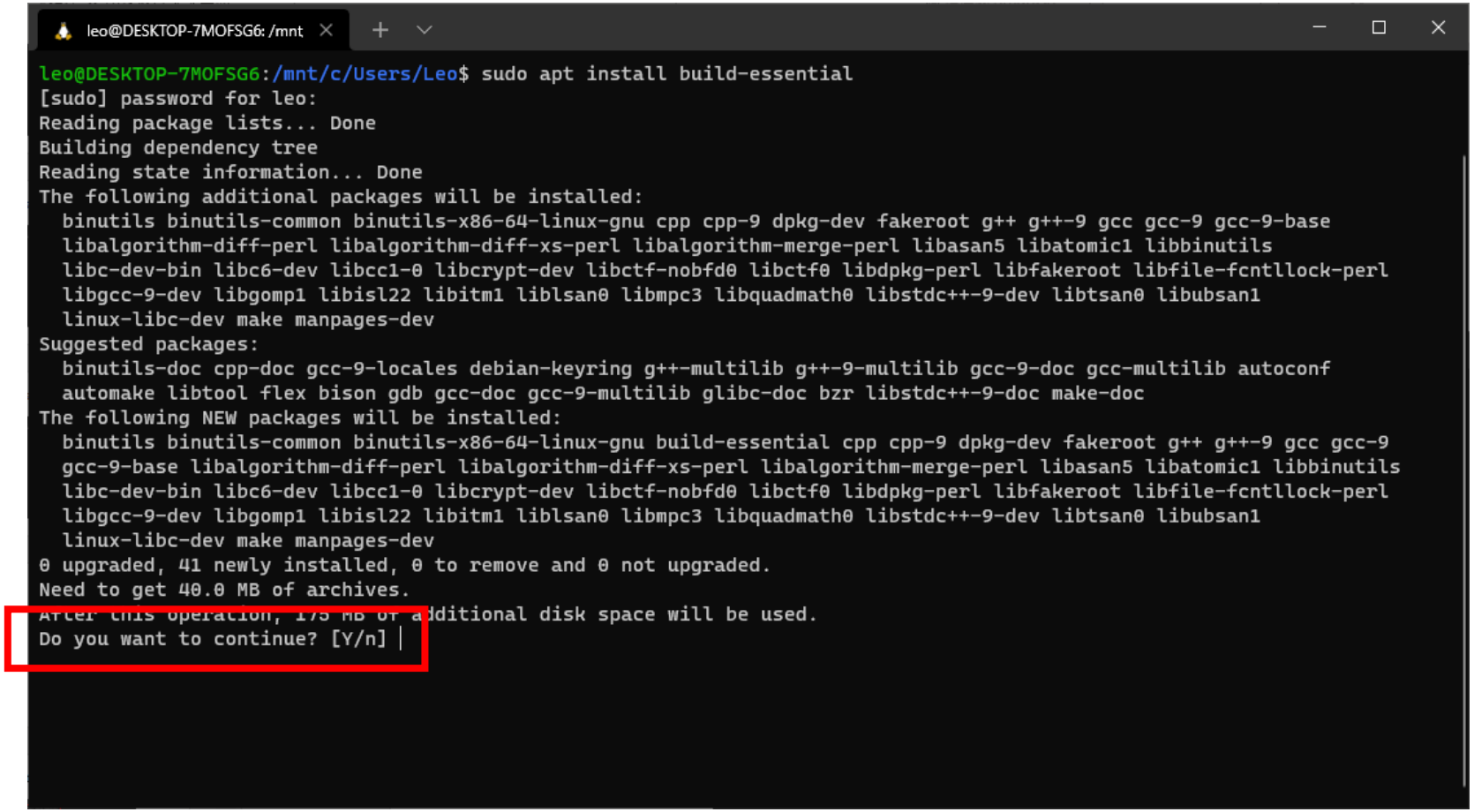
Enter your password for Ubuntu



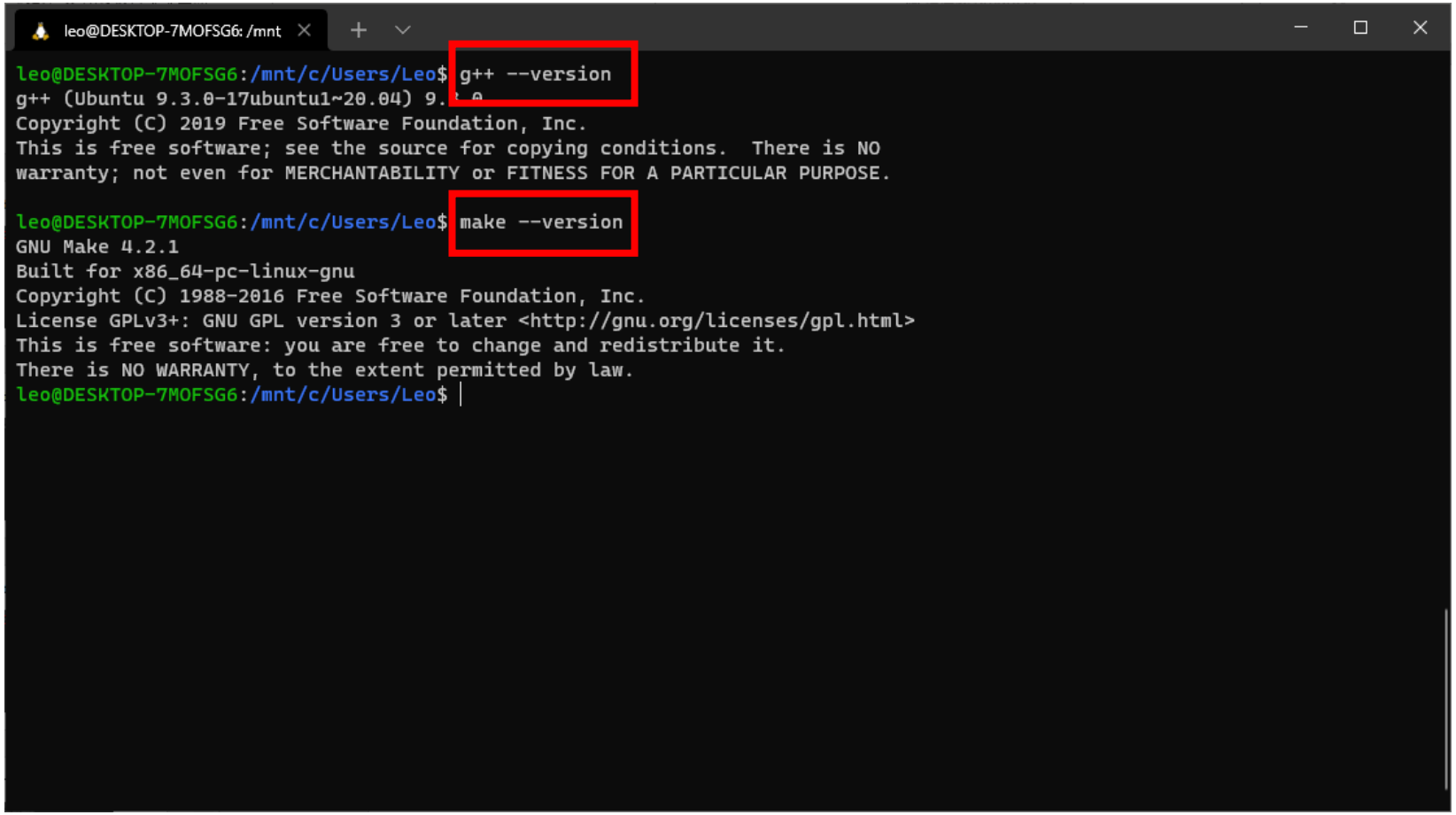
Enter **“sudo apt install build-essential”**



Press enter to continue



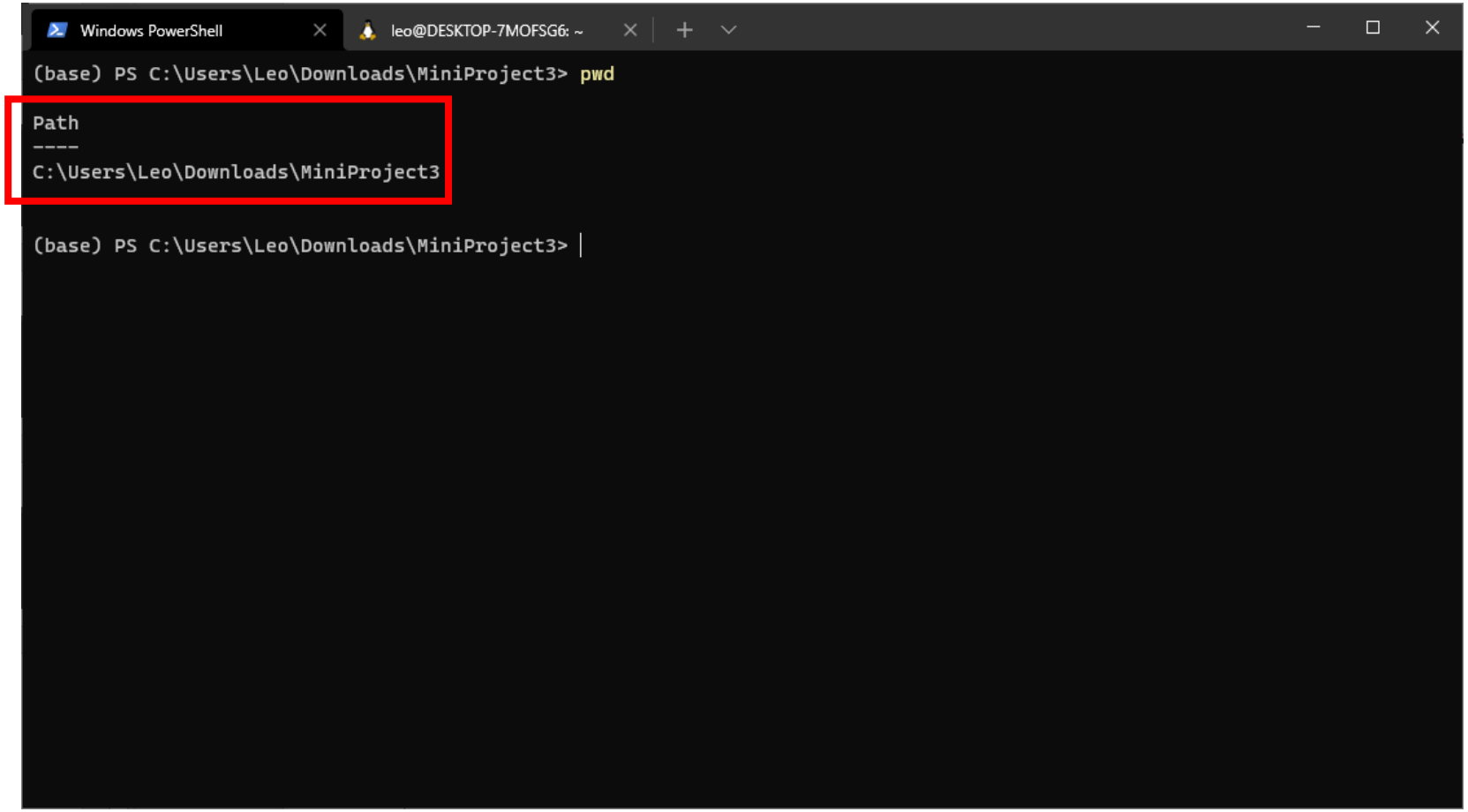
Type **“g++ --version”** and **“make --version”** to validate installation



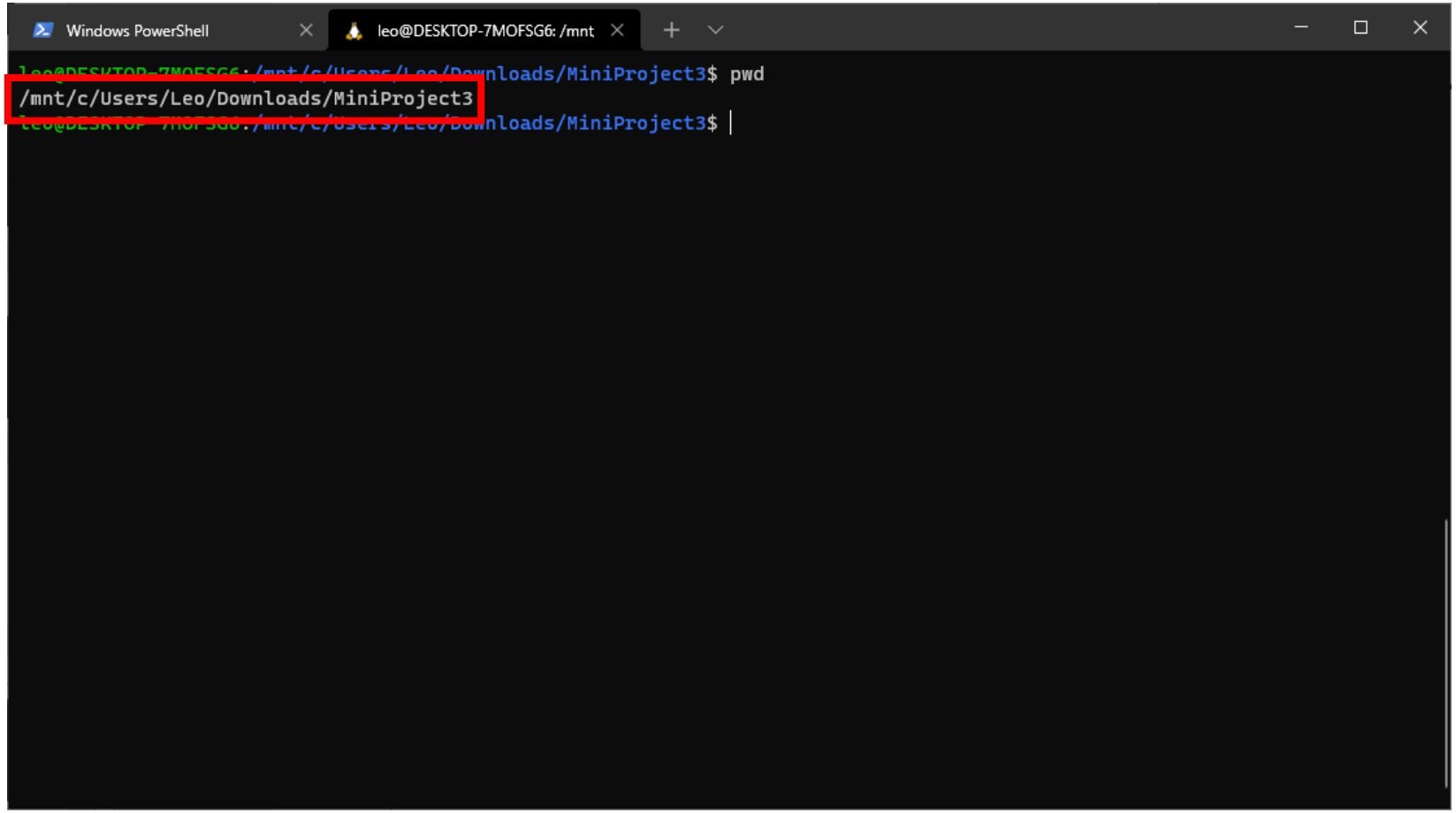
Outline

- Introduction
- Install WSL
- Setup WSL
- Install build-essential
- Compile in WSL
- Execute in WSL

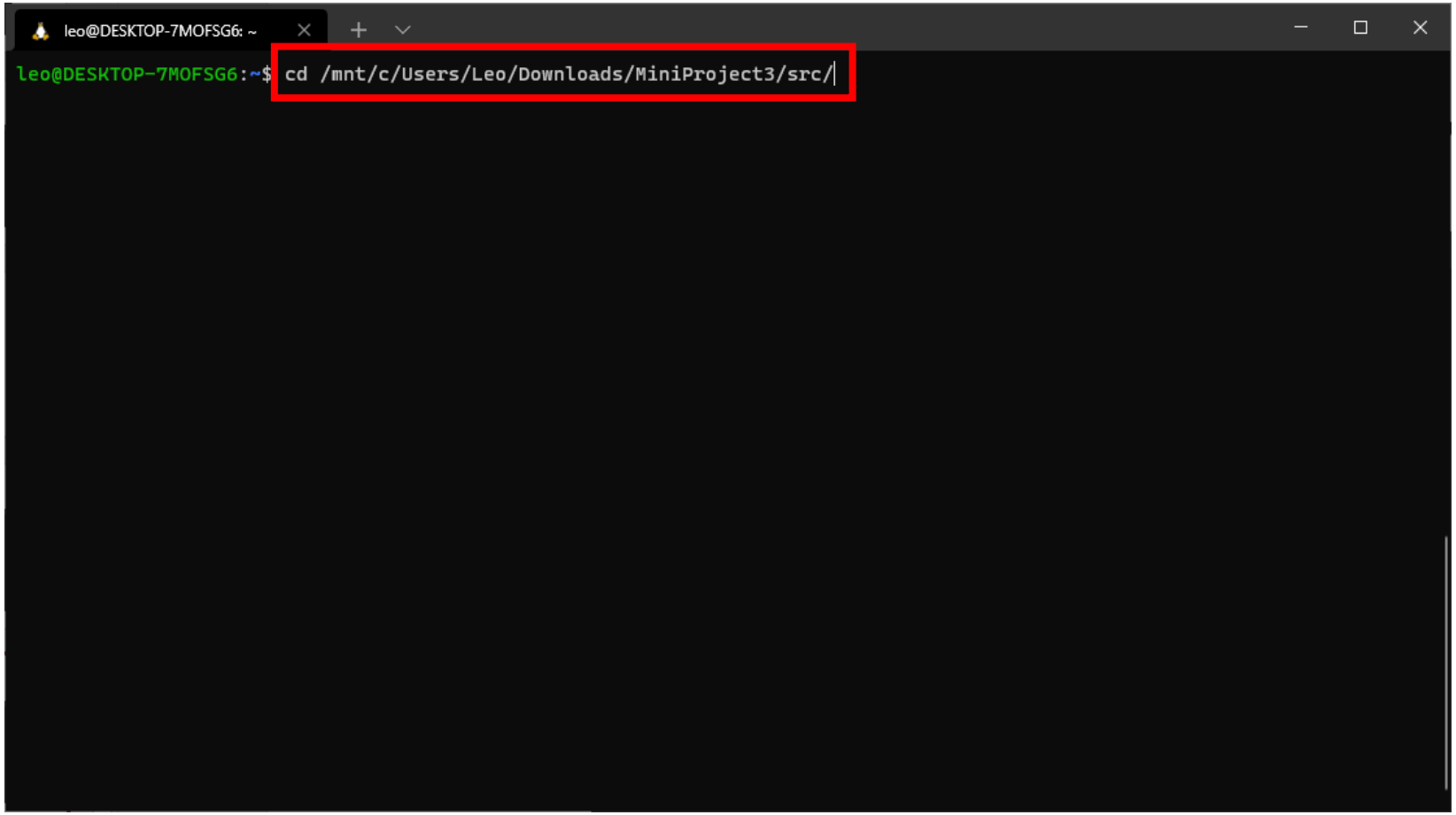
In Windows, your project path in C drive would be like **“C:\[project_path]”**



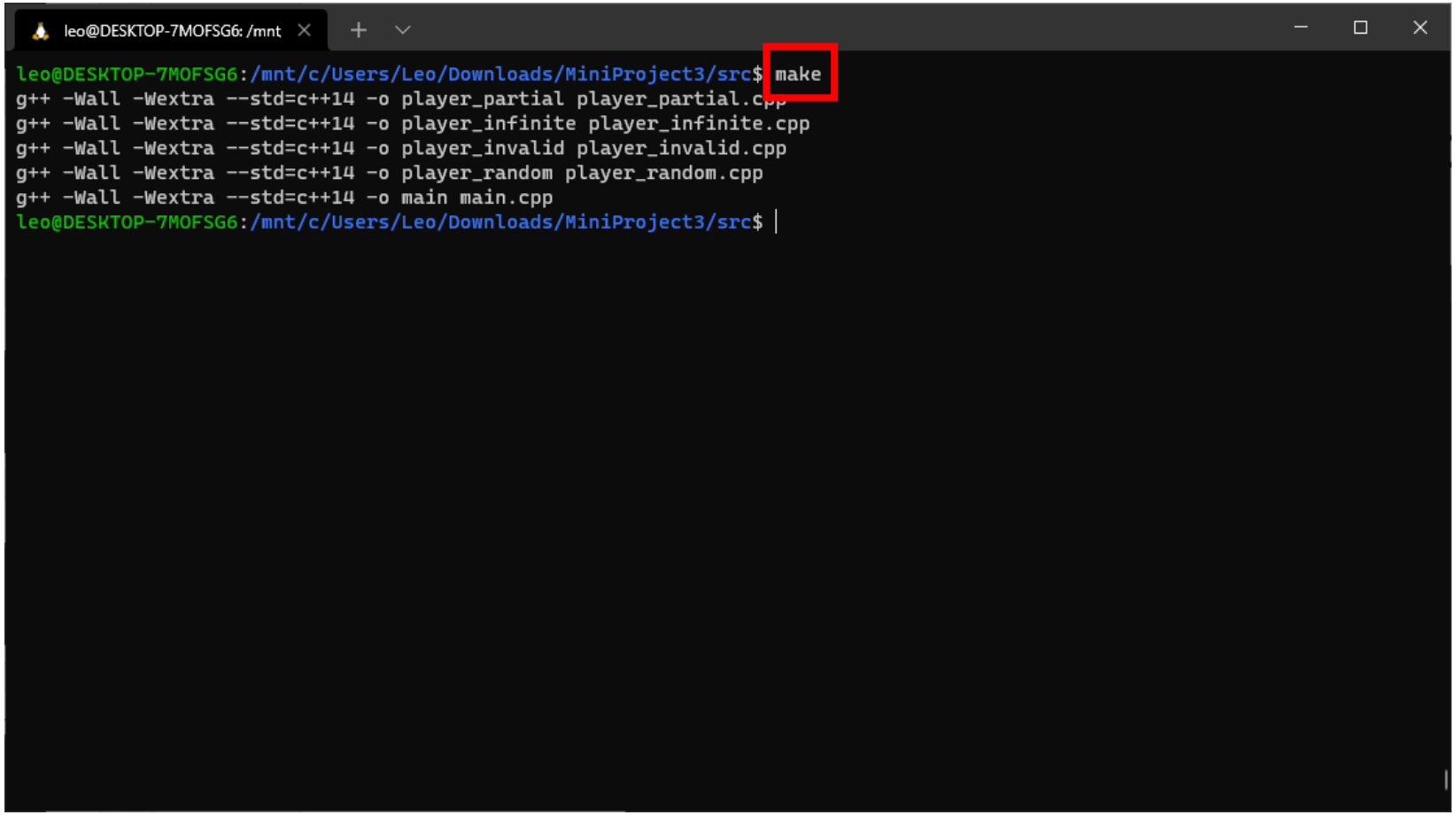
However, in WSL, your project path in C drive would be like **“/mnt/c/[project_path]”**



Change directory to the “src” folder of your project by **“cd [project_path]/src”**



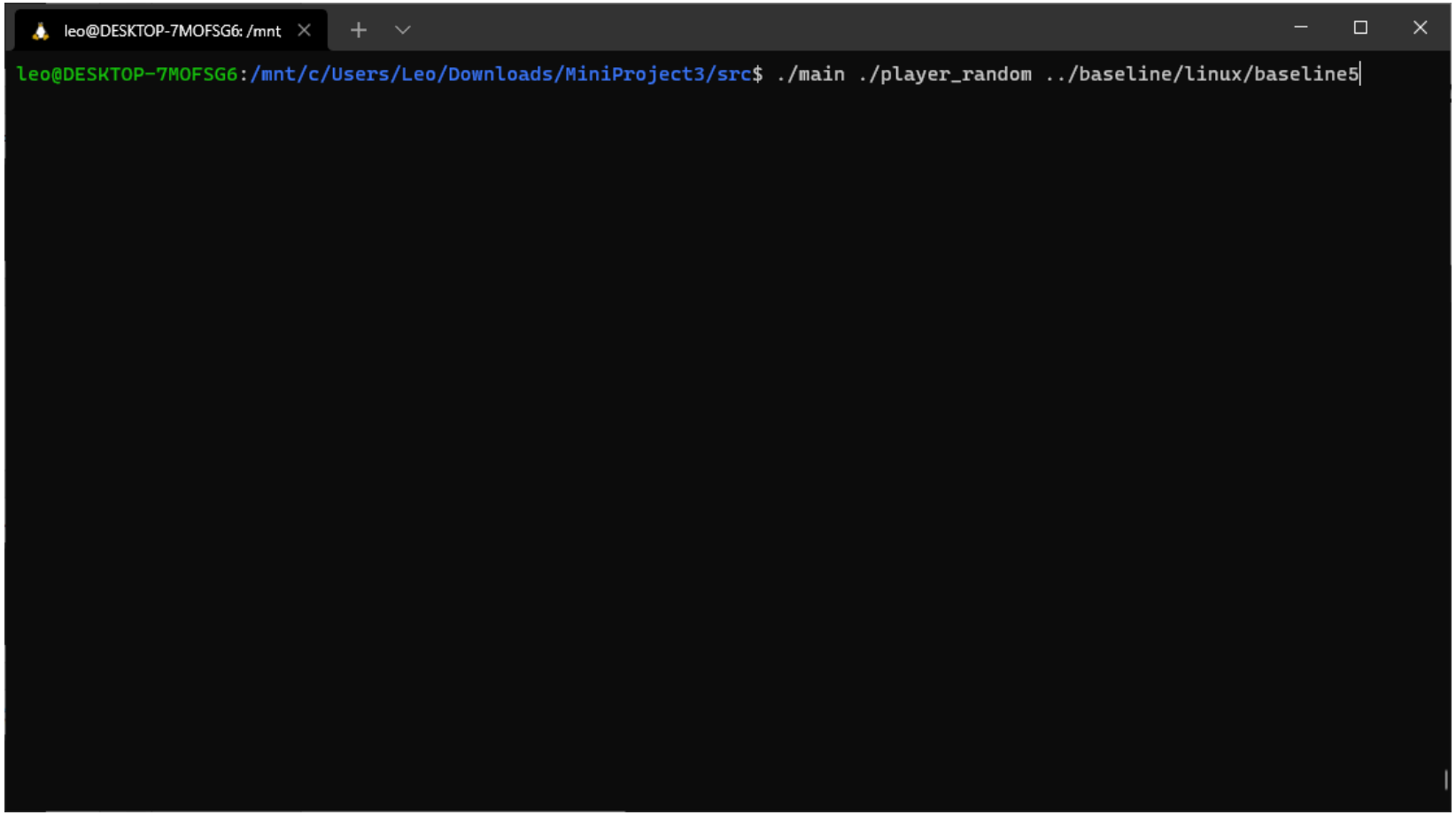
Type **“make”** to compile your code



Outline

- Introduction
- Install WSL
- Setup WSL
- Install build-essential
- Compile in WSL
- Execute in WSL

Type “**./main ./[AI1] ./[AI2]**” in terminal to execute while in the “src” folder of your project



Happy Coding!