National Textile University

Department of Computer Science

Subject:

Operating system

Submitted To:

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Submitted By:

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Registration No:

23-NTU-CS-1221

Lab No:

1

Semester:

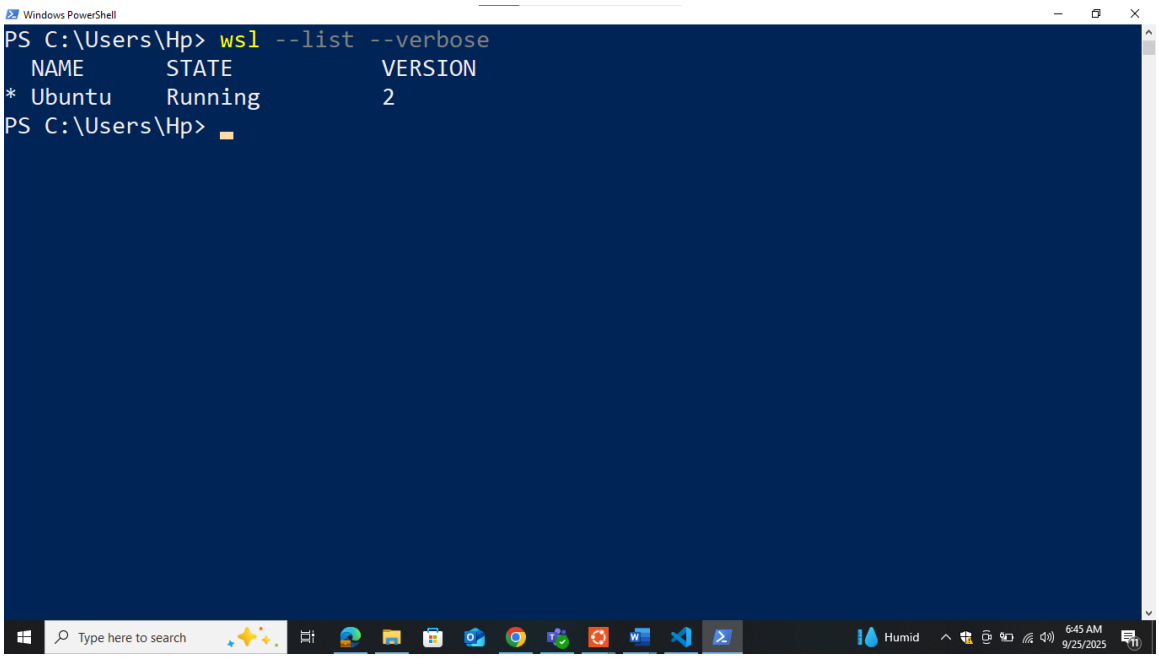
5

Objective:

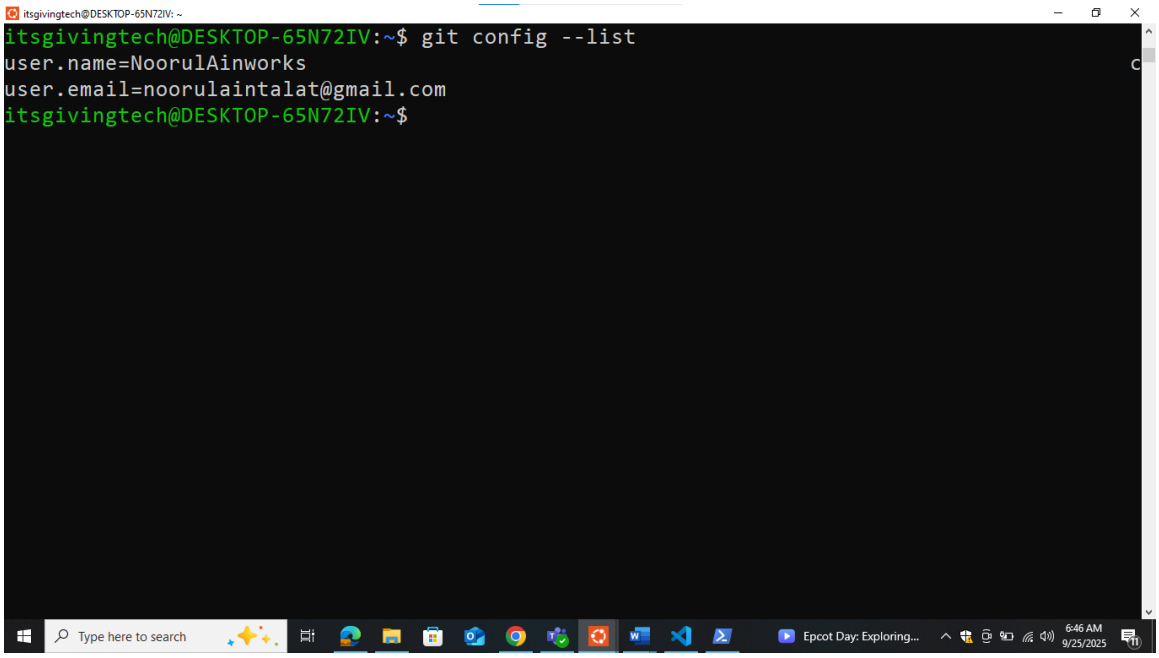
The purpose of this assignment is to:

1. Configure Ubuntu inside WSL2 (Windows Subsystem for Linux v2).
2. Install and configure Git in Ubuntu.
3. Generate and set up SSH keys to connect with GitHub.
4. Install the C development environment in Ubuntu.
5. Write a Hello World program in . C

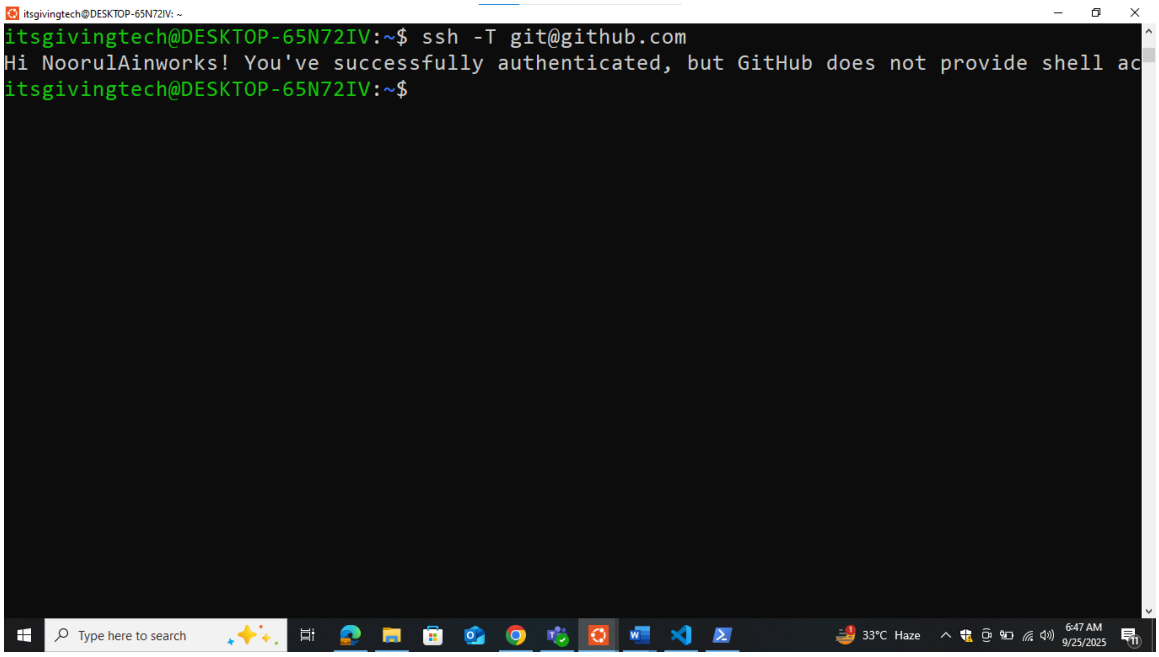
Part A: WSL2 & Ubuntu Setup



Part B: Git & GitHub SSH Setup

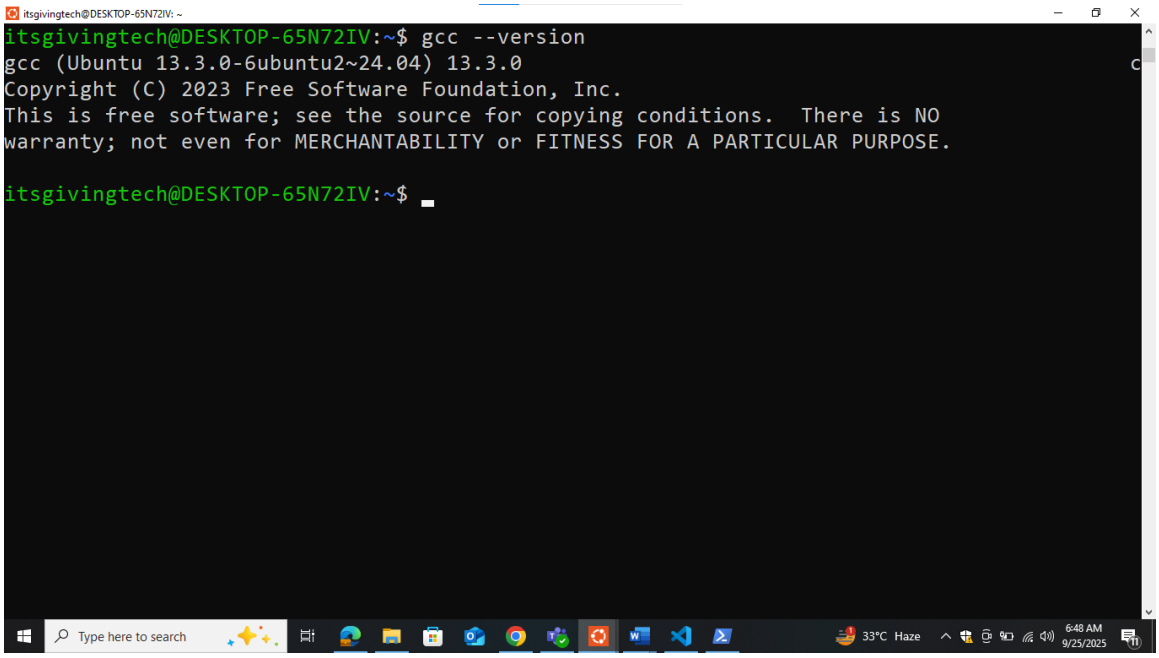


Test connection:

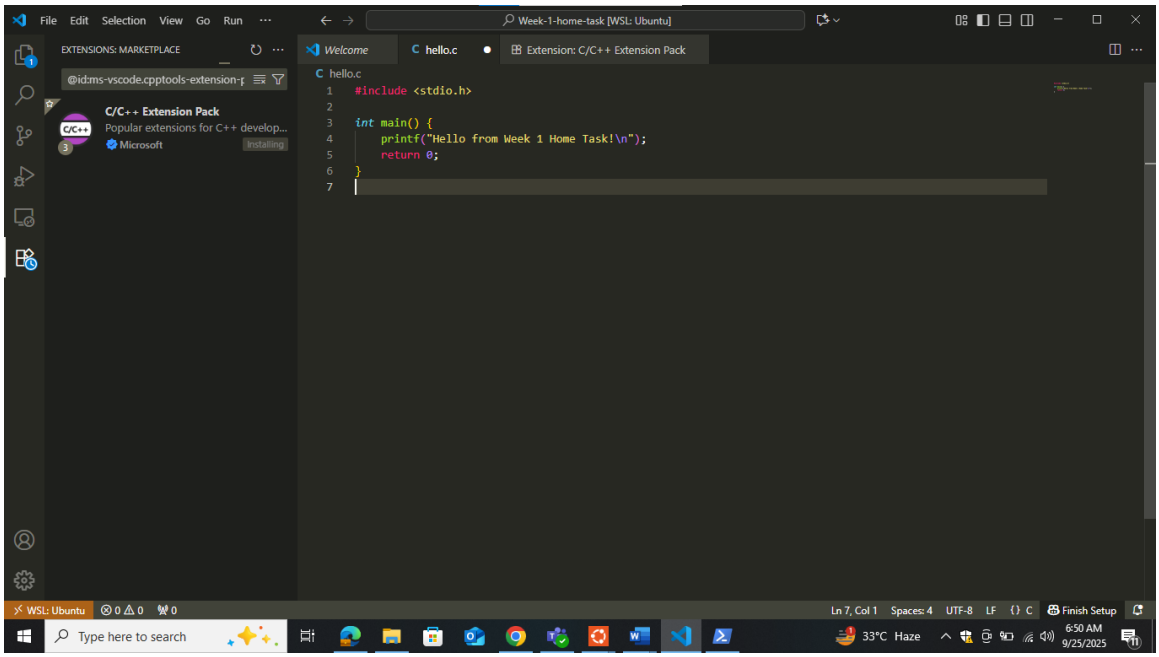


Part C: C Programming Environment & Practice

Gcc –version:



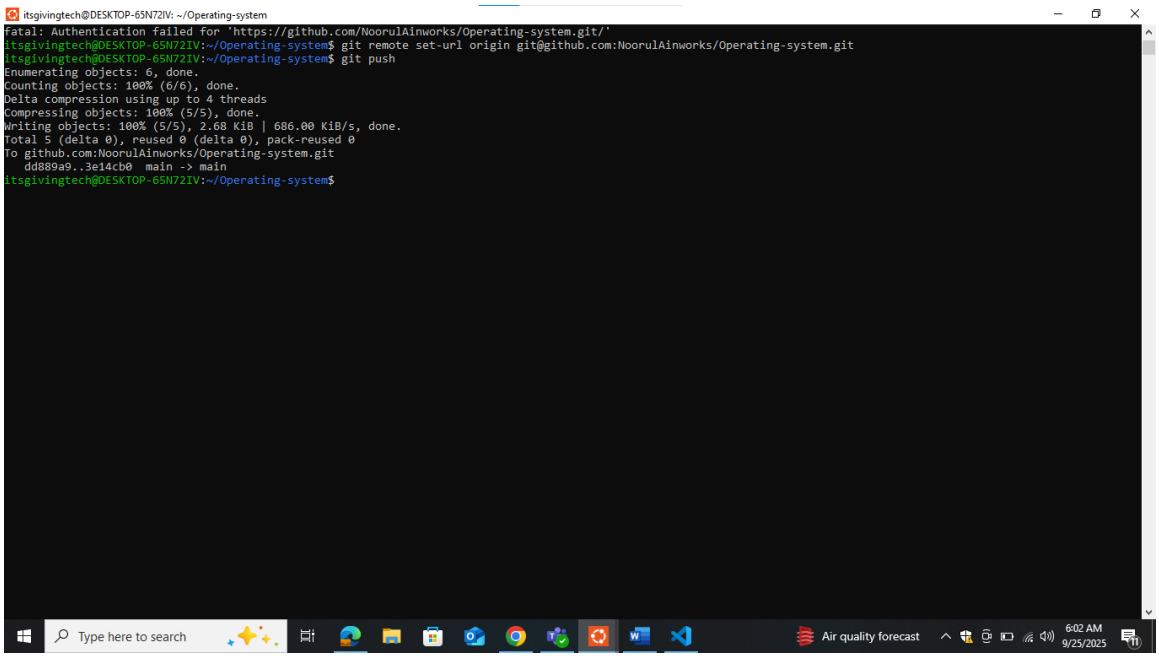
C program:



Execution:

```
itsgivingtech@DESKTOP-65N72IV:~$ cd Operating-system
itsgivingtech@DESKTOP-65N72IV:~/Operating-system$ mkdir Week-1-home-task
itsgivingtech@DESKTOP-65N72IV:~/Operating-system$ cd Week-1-home-task
itsgivingtech@DESKTOP-65N72IV:~/Operating-system/Week-1-home-task$ code .
itsgivingtech@DESKTOP-65N72IV:~/Operating-system/Week-1-home-task$ gcc hello.c -o hello.out
itsgivingtech@DESKTOP-65N72IV:~/Operating-system/Week-1-home-task$ ./hello.out
Hello from Week 1 Home Task!
itsgivingtech@DESKTOP-65N72IV:~/Operating-system/Week-1-home-task$ cd ..
itsgivingtech@DESKTOP-65N72IV:~/Operating-system$ git add .
itsgivingtech@DESKTOP-65N72IV:~/Operating-system$ git commit -m "Complete Week 1 Home Task (Part C: C Program)"
[main 3e14cb0] Complete Week 1 Home Task (Part C: C Program)
 2 files changed, 6 insertions(+)
 create mode 100644 Week-1-home-task/hello.c
 create mode 100755 Week-1-home-task/hello.out
```

Git push:



Note:

Successfully pushed to the saved directory on git using SSH key.