

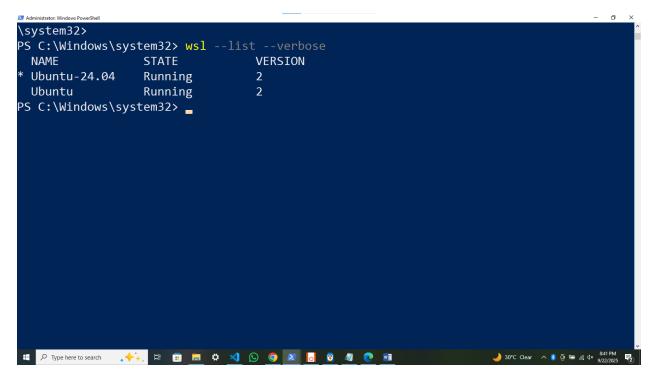
National Textile University

Department of Computer Science

Subject: Operating System
Submitted to: Sir Nasir Mahmood
Submitted by: Maha ATher
Reg. number: 23-NTU-CS-1170
Lab no.: lab1 (Home Task)
Semester:5th

Part A: WSL2 & Ubuntu Setup

• Verify WSL2 and Ubuntu installation



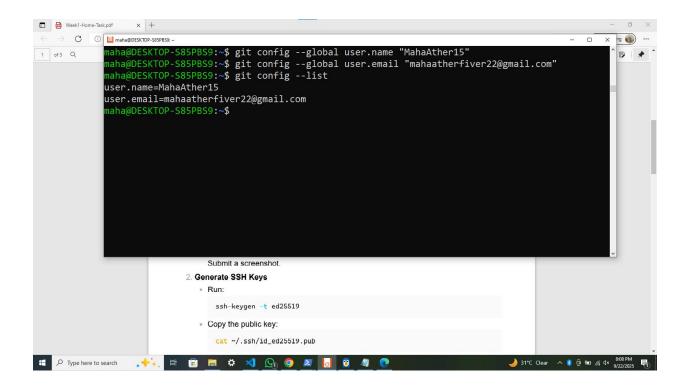
• Update Ubuntu environment Command:

sudo apt update && sudo apt upgrade -y

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Ø
maha@DESKTOP-S85PBS9:
 aha@DESKTOP-S85PBS9:~$ gcc hello.c -o hello.out
maha@DESKTOP-S85PBS9:~$ ./hello.out
maha@DESKTOP-S85PBS9:~$ ./hello.out
hello worldmaha@DESKTOP-S85PBS9:~$
maha@DESKTOP-S85PBS9:~$ sudo apt update && sudo apt upgrade -y
[sudo] password for maha:
Hit:1 http://archive.ubuntu.com/ubuntu noble InRelease
Hit:2 http://security.ubuntu.com/ubuntu noble-security InRelease
Hit:3 http://archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:4 http://archive.ubuntu.com/ubuntu noble-backports InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
2 packages can be upgraded. Run 'apt list --upgradable' to see them.
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Calculating upgrade... Done
The following packages were automatically installed and are no longer required:
 libdrm-nouveau2 libdrm-radeon1 libgl1-amber-dri libglapi-mesa libllvm17t64
  libxcb-dri2-0
Use 'sudo apt autoremove' to remove them.
The following packages have been kept back:
 libgl1-amber-dri libglapi-mesa
0 upgraded, 0 newly installed, 0 to remove and 2 not upgraded.
naha@DESKTOP-S85PBS9:~$
```

Part B: Git & GitHub SSH

Set your name and email && show your config



Test Connection

Command:

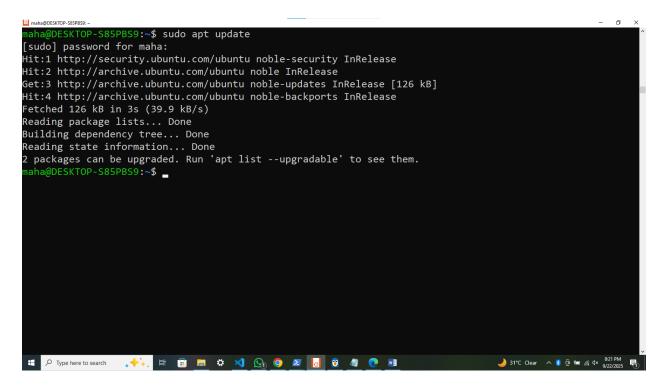
ssh -T git@github.com

Part C: C Programming Environment & Practice

Step 1: Install Build Tools

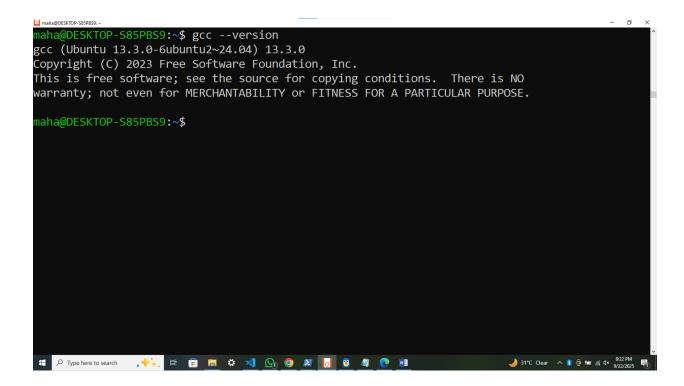
Command:

sudo apt update



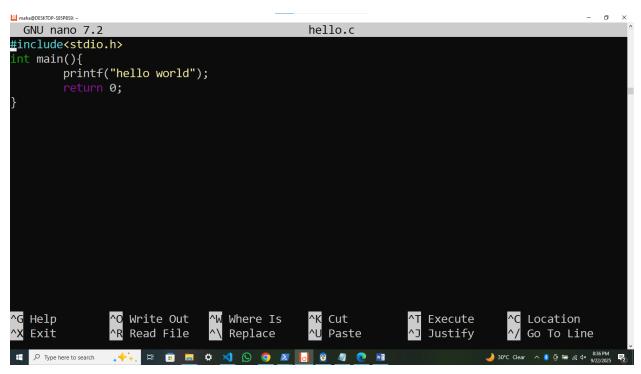
sudo apt install build-essential –y

• gcc –version

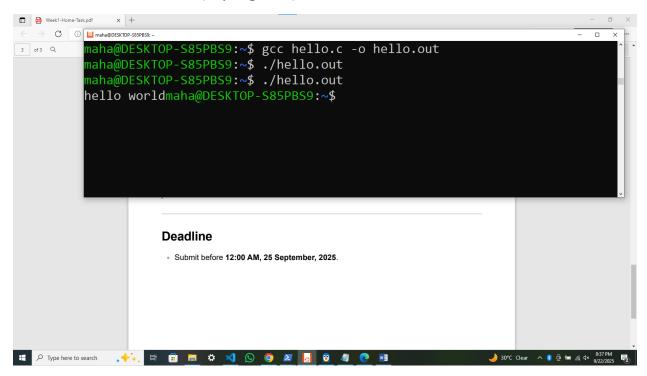


Step 2: How to run a C Program

The C source code (.c file).



Screenshot of execution (./program)



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