



National Textile University

Department of Computer Science

Subject: Operating System

Submitted to: Sir Nasir Mahmood

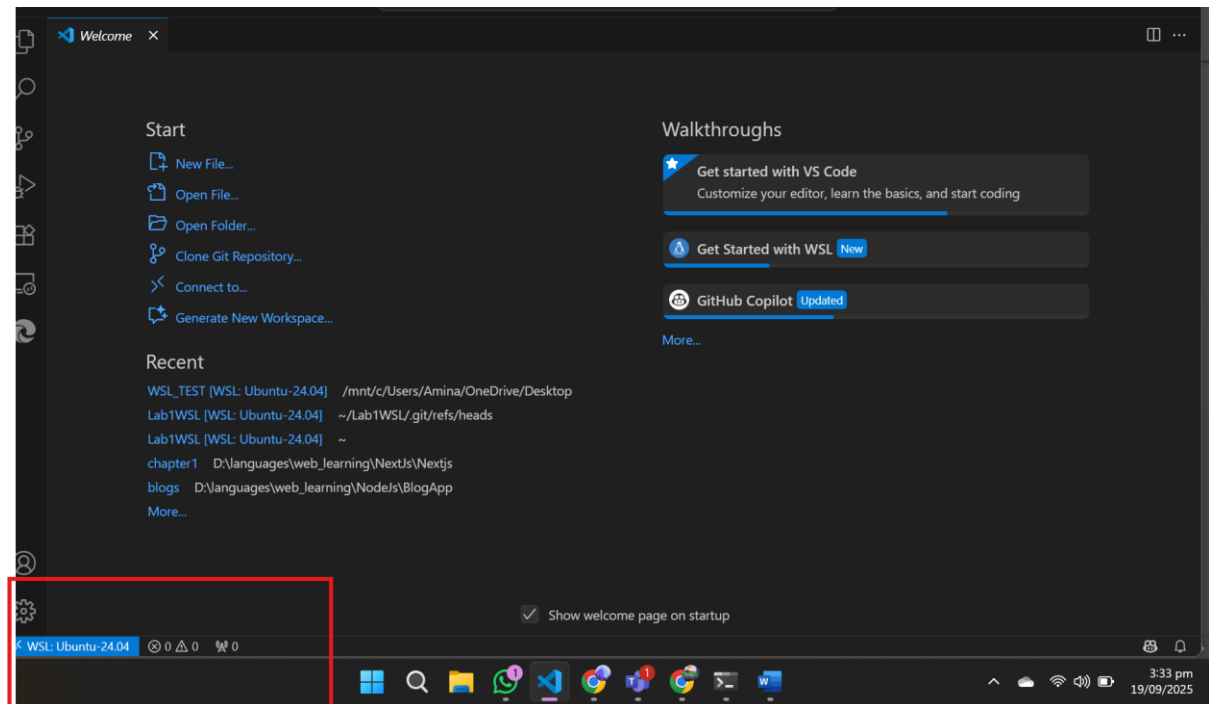
Submitted by: Amina

Reg. number: 23-NTU-CS-1136

Lab no.: lab1

Semester:5th

Connecting with VS Code:



Commands:

1. `sudo apt update && sudo apt upgrade -y`

```
amina@DESKTOP-SEP18NK: ~$ sudo apt update
[sudo] password for amina:
Hit:1 http://archive.ubuntu.com/ubuntu noble InRelease
Get:2 http://archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:3 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Get:4 http://archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Get:5 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 Packages [1415 kB]
Get:6 http://security.ubuntu.com/ubuntu noble-security/main amd64 Components [21.5 kB]
Get:7 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [52.3 kB]
Get:8 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Components [212 B]
Get:9 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Components [212 B]
Get:10 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 Components [175 kB]
Get:11 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 c-n-f Metadata [15.3 kB]
Get:12 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 Packages [1485 kB]
Get:13 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 Components [377 kB]
Get:14 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 c-n-f Metadata [31.1 kB]
Get:15 http://archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Components [212 B]
Get:16 http://archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Components [940 B]
Get:17 http://archive.ubuntu.com/ubuntu noble-backports/main amd64 Components [7056 B]
Get:18 http://archive.ubuntu.com/ubuntu noble-backports/universe amd64 Components [19.2 kB]
Get:19 http://archive.ubuntu.com/ubuntu noble-backports/restricted amd64 Components [216 B]
Get:20 http://archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 Components [212 B]
Fetched 3979 kB in 13s (316 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
2 packages can be upgraded. Run 'apt list --upgradable' to see them.
amina@DESKTOP-SEP18NK:~$
```

```
2 packages can be upgraded. Run 'apt list --upgradable' to see them.
amina@DESKTOP-SEP18NK:~$ sudo apt upgrade -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Calculating upgrade... Done
The following package was automatically installed and is no longer required:
  libllvm19
Use 'sudo apt autoremove' to remove it.
The following upgrades have been deferred due to phasing:
  landscape-client landscape-common
0 upgraded, 0 newly installed, 0 to remove and 2 not upgraded.
amina@DESKTOP-SEP18NK:~$
```

2. `sudo apt install build-essential -y`

```
amina@DESKTOP-SEP18NK: ~$ sudo apt install build-essential -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
build-essential is already the newest version (12.10ubuntu1).
The following package was automatically installed and is no longer required:
  libllvm19
Use 'sudo apt autoremove' to remove it.
0 upgraded, 0 newly installed, 0 to remove and 2 not upgraded.
amina@DESKTOP-SEP18NK: ~$
```

Wsl -l -v:

```
Microsoft Windows [Version 10.0.26100.6584]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Amina>wsl -l -v
  NAME      STATE      VERSION
* Ubuntu-24.04  Running      2

C:\Users\Amina>
```

Gcc -v:

```
amina@DESKTOP-SEP18NK: /mnt/c/WINDOWS/system32$ gcc --version
gcc (Ubuntu 13.3.0-6ubuntu2~24.04) 13.3.0
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warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

amina@DESKTOP-SEP18NK: /mnt/c/WINDOWS/system32$
```

