



National Textile University

Department of Computer Science

Subject: Operating System

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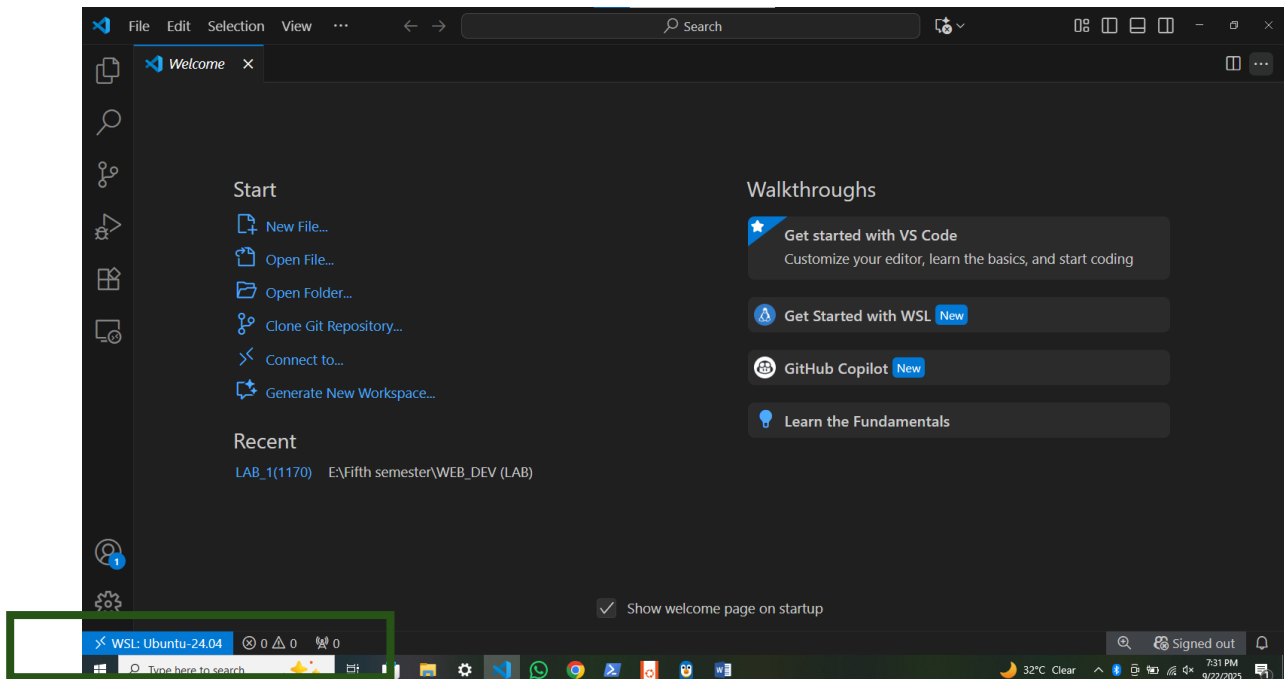
Submitted by: Maha

Reg. number: 23-NTU-CS-1170

Lab no.: lab1

Semester: 5th

Connecting with VS Code:



Commands:

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

```
maha@DESKTOP-S85P8S9: ~  
Setting up ubuntu-wsl (1.539.2) ...  
maha@DESKTOP-S85P8S9:~$  
maha@DESKTOP-S85P8S9:~$ sudo apt update && sudo apt upgrade -y  
Hit:1 http://security.ubuntu.com/ubuntu noble-security InRelease  
Hit:2 http://archive.ubuntu.com/ubuntu noble 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.  
maha@DESKTOP-S85P8S9:~$
```

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

```
maha@DESKTOP-S85PBS9:~$ 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 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.
0 upgraded, 0 newly installed, 0 to remove and 2 not upgraded.
maha@DESKTOP-S85PBS9:~$
```

Wsl -l -v:

```
Administrator: Windows PowerShell
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Windows\system32>
PS C:\Windows\system32>
PS C:\Windows\system32> wsl -l -v
Invalid command line argument: -l-v
Please use 'wsl.exe --help' to get a list of supported arguments.
PS C:\Windows\system32> wsl -l -v
  NAME      STATE      VERSION
* Ubuntu-24.04  Running    2
  Ubuntu    Running    2
PS C:\Windows\system32>
```

Gcc -v:

```
maha@DESKTOP-S85PBS9:~$ gcc -v
Using built-in specs.
COLLECT_GCC=gcc
COLLECT_LTO_WRAPPER=/usr/libexec/gcc/x86_64-linux-gnu/13/lto-wrapper
OFFLOAD_TARGET_NAMES=nvptx-none:amdgc- amdhsa
OFFLOAD_TARGET_DEFAULT=1
Target: x86_64-linux-gnu
Configured with: ../src/configure -v --with-pkgversion='Ubuntu 13.3.0-6ubuntu2~24.04' --with-bugurl=file:
///usr/share/doc/gcc-13/README.Bugs --enable-languages=c,ada,c++,go,d,fortran,objc,obj-c++,m2 --prefix=/u
sr --with-gcc-major-version-only --program-suffix=-13 --program-prefix=x86_64-linux-gnu- --enable-shared
--enable-linker-build-id --libexecdir=/usr/libexec --without-included-gettext --enable-threads=posix --li
bdir=/usr/lib --enable-nls --enable-bootstrap --enable-clocale=gnu --enable-libstdc++-debug --enable-libs
tdc++-time=yes --with-default-libstdc++-abi=new --enable-libstdc++-backtrace --enable-gnu-unique-object -
-disable-vtable-verify --enable-plugin --enable-default-pie --with-system-zlib --enable-libphobos-checkin
g=release --with-target-system-zlib=auto --enable-objc-gc=auto --enable-multiarch --disable-werror --enab
le-cet --with-arch=32=i686 --with-abi=m64 --with-multilib-list=m32,m64,mx32 --enable-multilib --with-tune
=generic --enable-offload-targets=nvptx-none=/build/gcc-13-fG75Ri/gcc-13-13.3.0/debian/tmp-nvptx/usr,amdgc
n-amdhsa=/build/gcc-13-fG75Ri/gcc-13-13.3.0/debian/tmp-gcn/usr --enable-offload-defaulted --without-cuda
-driver --enable-checking=release --build=x86_64-linux-gnu --host=x86_64-linux-gnu --target=x86_64-linux-
gnu --with-build-config=bootstrap-lto-lean --enable-link-serialization=2
Thread model: posix
Supported LTO compression algorithms: zlib zstd
gcc version 13.3.0 (Ubuntu 13.3.0-6ubuntu2~24.04)
maha@DESKTOP-S85PBS9:~$
```