



# National Textile University

*Department of Computer Science*

Subject:

**Operating System**

Submitted To:

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Registration No:

**23-NTU-CS-1163**

Lab No:

**1**

Semester:

**5<sup>th</sup>**

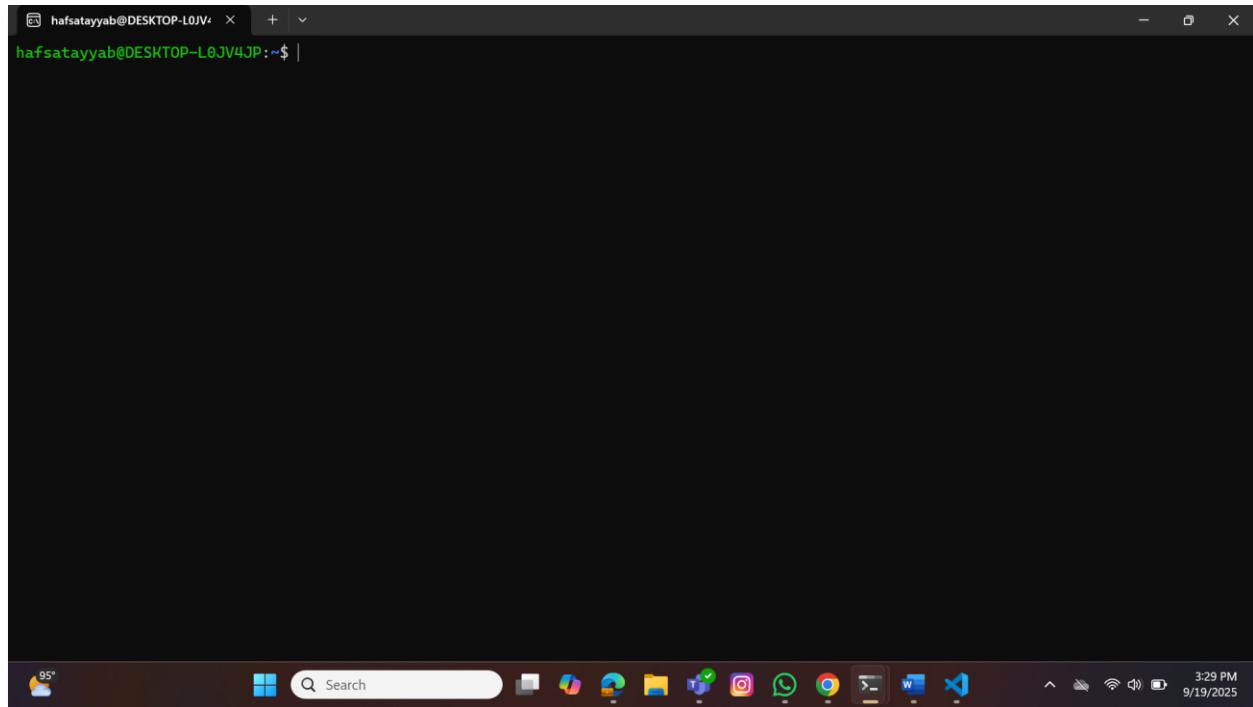
# Lab 1 Plan: WSL2 Setup and Ubuntu Configuration

## Lab Activities

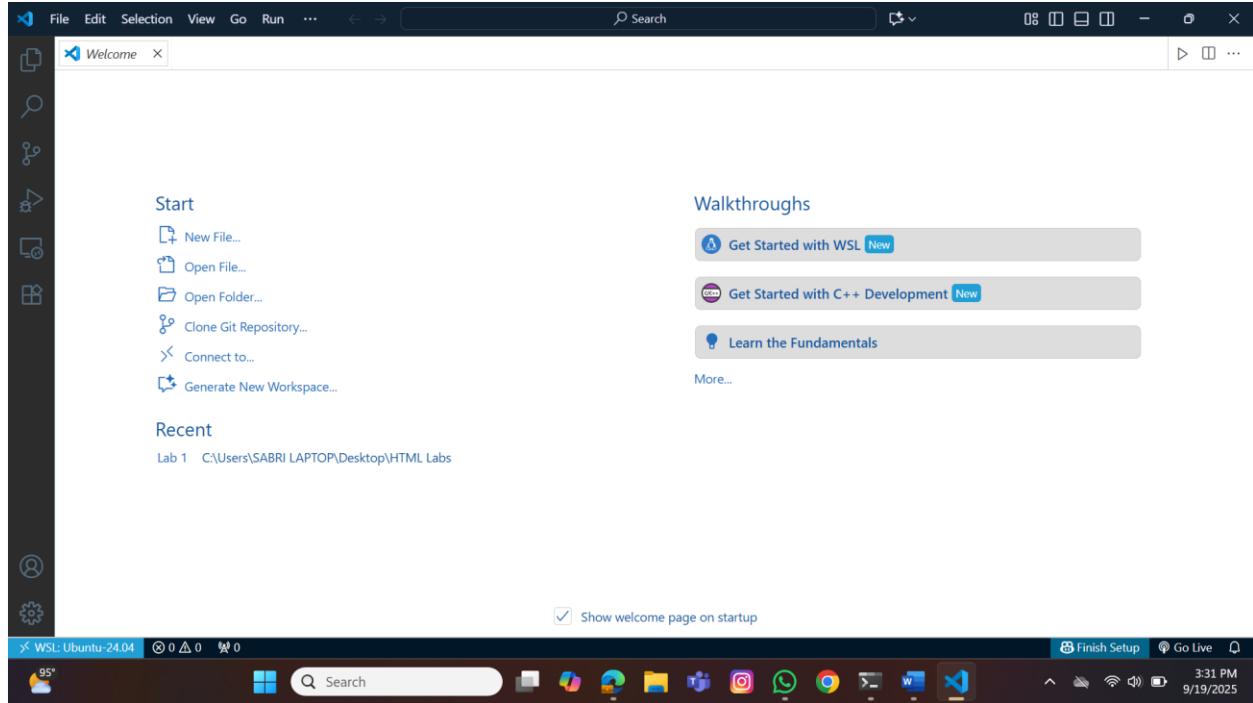
### Task 01: Installing WSL2 on Windows

**Step 1: Open PowerShell as Administrator.**

**Step 2: Run command to enable WSL and Virtual Machine Platform: wsl.exe --install -d Ubuntu-24.04**



## Task 02: Visual Studio Code Integration with Ubuntu



## Task 03: GCC Version

```
hafsatayyab@DESKTOP-L0JV4JP:~$ gcc --version
gcc: error: unrecognized command-line option '--v'; did you mean '--d'?
gcc: fatal error: no input files
compilation terminated.
hafsatayyab@DESKTOP-L0JV4JP:~$ 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:amdgcn-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=/usr --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 --libdir=/usr/lib --enable-nls --enable-bootstrap --enable-locale=gnu --enable-libstdcxx-debug --enable-libstdcxx-time=yes --with-default-libstdcxx-abi=new --enable-libstdcxx-backtrace --enable-gnu-unique-object --disable-vtable-verify --enable-plugin --enable-default-pie --with-system-zlib --enable-libphobos-checking=release --with-target-system-zlib=auto --enable-objc-gc=auto --enable-multiarch --disable-werror --enable-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,amdgcn-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)
hafsatayyab@DESKTOP-L0JV4JP:~$ |
```

The terminal window shows the output of the 'gcc --version' command. It indicates that the compiler is configured for Ubuntu 13.3.0-6ubuntu2~24.04, and lists various build options and supported languages. The environment variable 'OFFLOAD\_TARGET\_NAMES' is set to 'nvptx-none:amdgcn-amdhsa'. The terminal prompt ends with '|', indicating it's part of a pipeline.