



Department of Computer Science

Subject:

OPERATING SYSTEM

Submitted by:

ABDUL REHMAN SUDAIS

Reg number:

23-NTU-CS-1123

Lab :

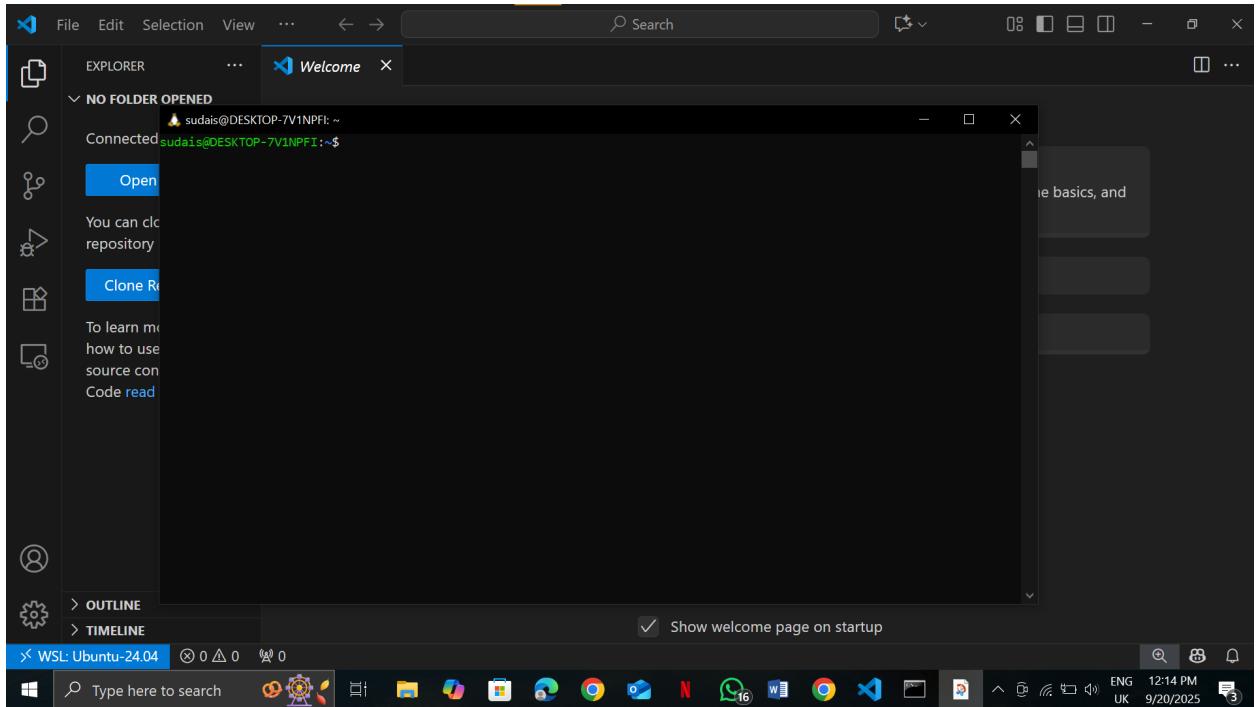
1

Semester:

5TH

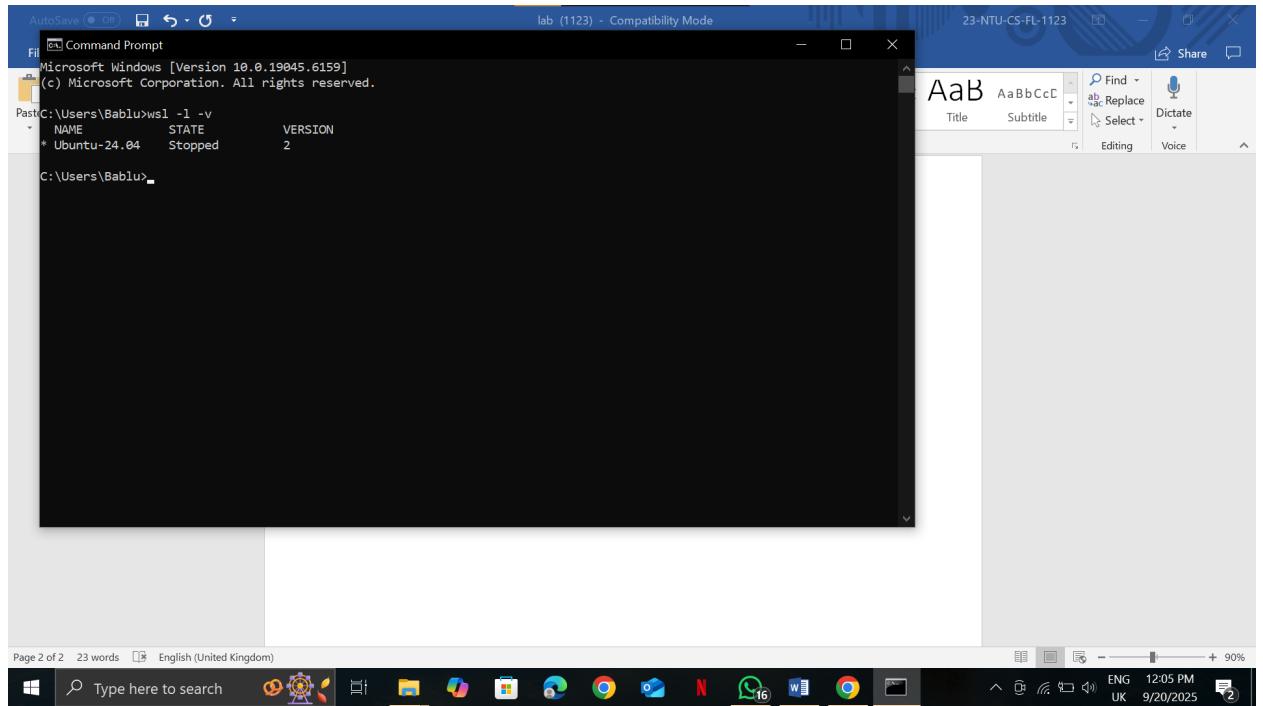
- WSL:

- Install wsl in pc and generate a user name and password.

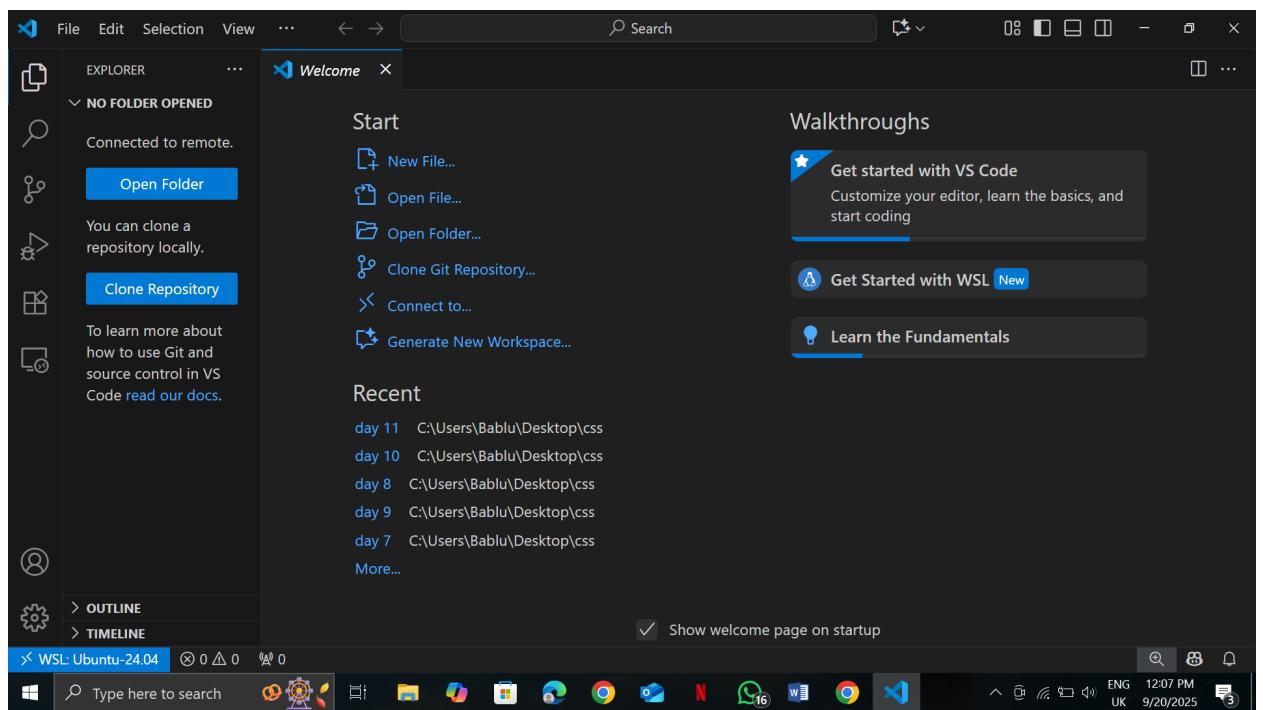


- WSL VERSION:

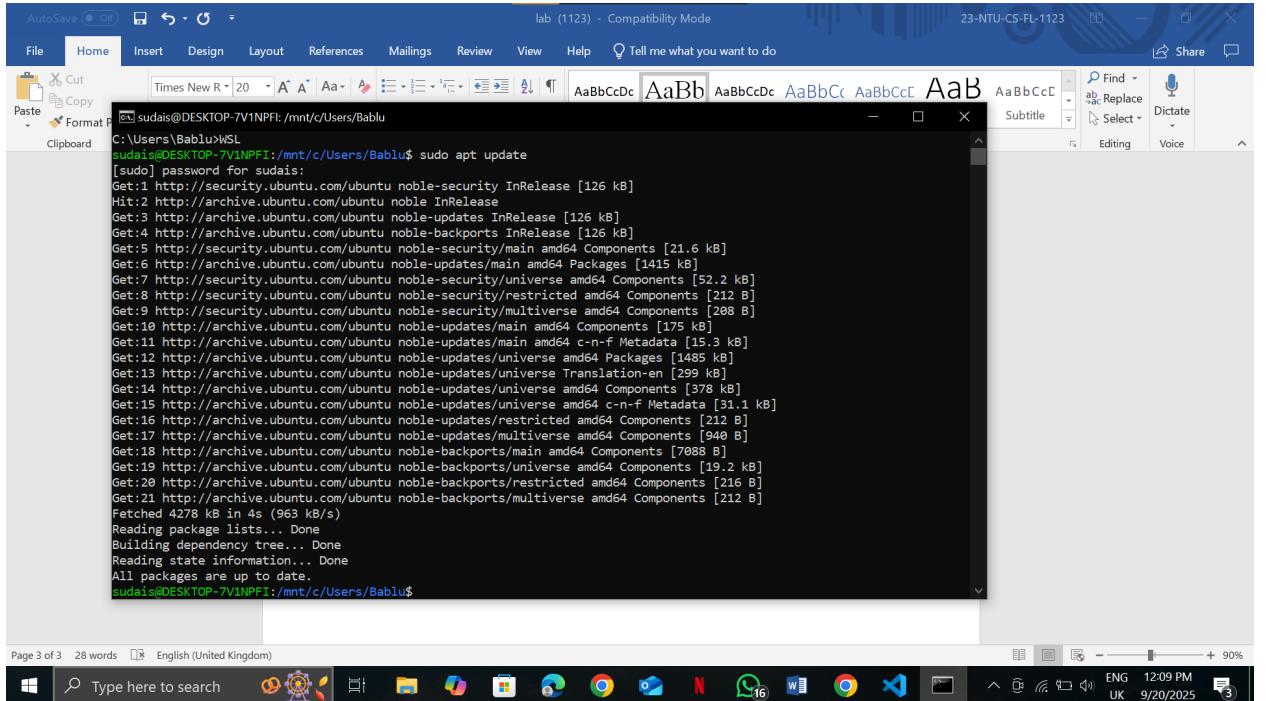
- Check the version of wsl.
 - To check the version, **wsl -l -v** command is used.



- WSL CONNECTION WITH VS-CODE:



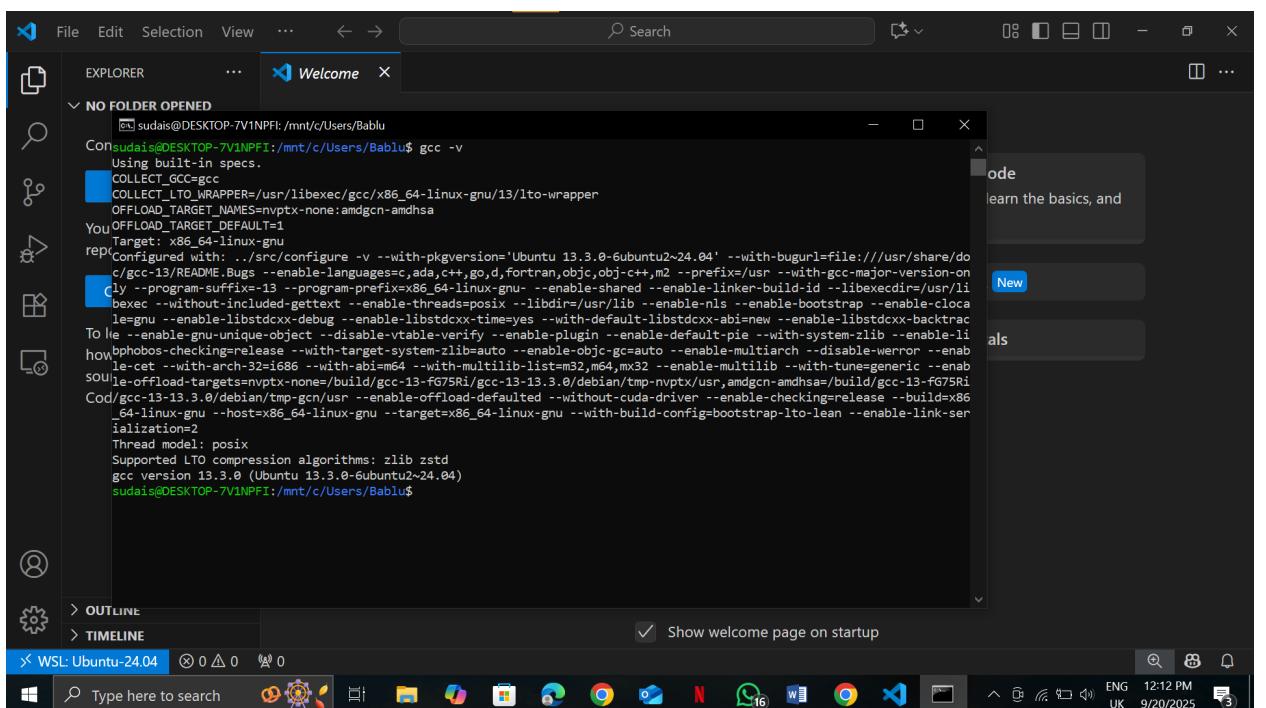
• APT UPDATE:



The screenshot shows a Microsoft Word document window titled "lab (1123) - Compatibility Mode". The document contains the output of a terminal command. The terminal prompt is "sudais@DESKTOP-7V1NPF1:/mnt/c/Users/Bablu\$". The command entered is "sudo apt update". The output shows the progress of the update, including file names and sizes being downloaded from various Ubuntu repositories. The update is completed successfully with the message "All packages are up to date." The status bar at the bottom of the screen shows the date and time as "9/20/2025 12:09 PM".

```
C:\Users\Bablu>WSL
sudais@DESKTOP-7V1NPF1:/mnt/c/Users/Bablu$ sudo apt update
[sudo] password for sudais:
Get:1 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Hit:2 http://archive.ubuntu.com/ubuntu noble InRelease
Get:3 http://archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:4 http://archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Get:5 http://security.ubuntu.com/ubuntu noble-security/main amd64 Components [21.6 kB]
Get:6 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 Packages [1415 kB]
Get:7 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [52.2 kB]
Get:8 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Components [212 kB]
Get:9 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Components [208 kB]
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 Translation-en [299 kB]
Get:14 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 Components [378 kB]
Get:15 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 c-n-f Metadata [31.1 kB]
Get:16 http://archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Components [212 kB]
Get:17 http://archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Components [940 kB]
Get:18 http://archive.ubuntu.com/ubuntu noble-backports/main amd64 Components [7088 kB]
Get:19 http://archive.ubuntu.com/ubuntu noble-backports/universe amd64 Components [19.2 kB]
Get:20 http://archive.ubuntu.com/ubuntu noble-backports/restricted amd64 Components [216 kB]
Get:21 http://archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 Components [212 kB]
Fetched 4278 kB in 4s (963 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
All packages are up to date.
sudais@DESKTOP-7V1NPF1:/mnt/c/Users/Bablu$
```

• GCC VERSION:



The screenshot shows the Visual Studio Code interface with a terminal window open. The terminal prompt is "sudais@DESKTOP-7V1NPF1:/mnt/c/Users/Bablu\$". The command entered is "gcc -v". The output displays detailed information about the GCC compiler version 13.3.0, including build details, target architecture (x86_64-linux-gnu), and various compilation flags and options. The status bar at the bottom of the screen shows the date and time as "9/20/2025 12:12 PM".

```
sudais@DESKTOP-7V1NPF1:/mnt/c/Users/Bablu$ 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
You 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++,m --prefix=/usr --with-gcc-major-version-on-binaries --program-suffix=x-13 --program-prefix=x86_64-linux-gnu- --enable-shared --enable-linker-build-id --libexecdir=/usr/libexec/gnu --without-included-gettext --enable-threads=posix --libdir=/usr/lib --enable-nis --enable-bootstrap --enable-cloca --enable-gnu-unique-object --disable-vtable-verify --enable-plugin --enable-default-pie --with-system-zlib --enable-libgcc --enable-libstdcxx-debug --enable-libstdcxx-time=yes --with-default-libstdcxx-abi=new --enable-libstdcxx-backtrace --enable-gnu-unique-object --enable-multilib --enable-multilib --with-tune=generic --enable-libquadmath --enable-libquadmath-support --enable-offload-targets=nvptx-none/build/gcc-13-f675Ri/gcc-13-13.3.0/debian/tmp-gcc/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-linker-initialization=2
Thread model: posix
Supported LTO compression algorithms: zlib zstd
gcc version 13.3.0 (Ubuntu 13.3.0-6ubuntu2~24.04)
sudais@DESKTOP-7V1NPF1:/mnt/c/Users/Bablu$
```