



**National Textile University**  
**Department of Computer Science**

Subject:

Operating System

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Submitted to:

Sir Nasir

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Submitted by:

Hussain Naweed

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Reg number:

1165

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Lab no. :

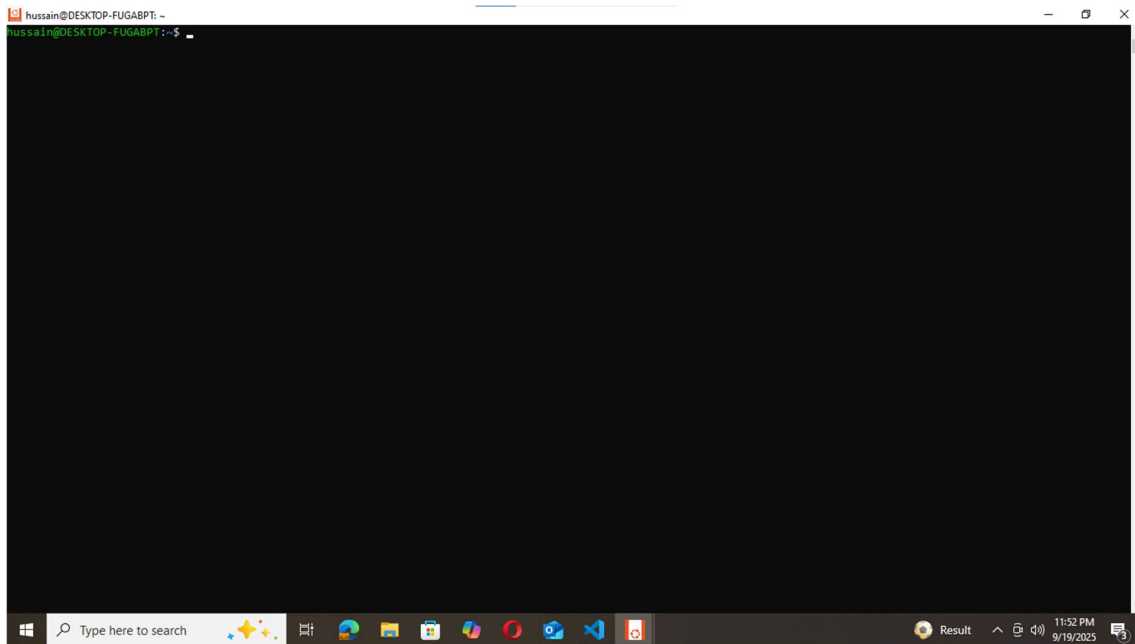
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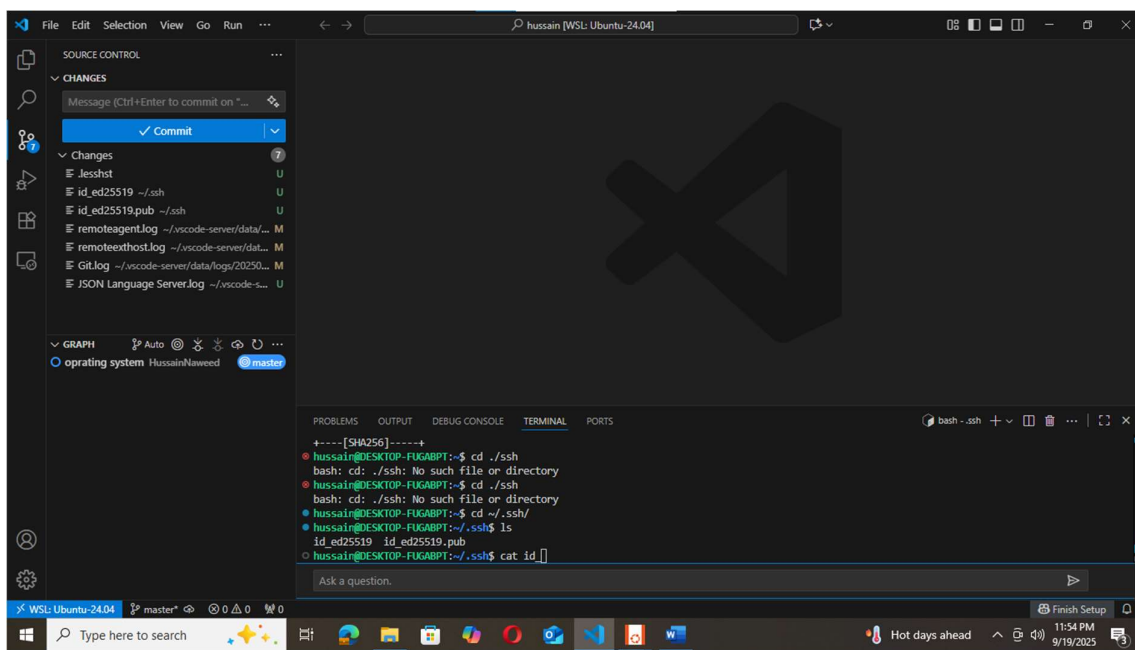
Semester:

## Task 1:

I have installed ubuntu WSL



It also connected and run on vscode



## Task 2:

### GCC Bulid Esentional:

```
hussain@DESKTOP-FUGABPT: ~  
hussain@DESKTOP-FUGABPT:~$ 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-ndhsa  
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-clocale-gnu --enable-libstdc++-debug --enable-libstdc++-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-checking-release --with-target-system-zlib=auto --enable-objc-gc=auto --enable-multiarch --disable-werror --enable-cet --with-arch=32-1686 --with-abi=m64 --with-multilib-list=m32,m64,mx32 --enable-multilib --with-tune=generic --enable-offload-targets=nvptx-none/build/gcc-13-fg75R1/gcc-13-13.3.0/debian/tmp-nvptx/usr,amdgc-ndhsa/build/gcc-13-fg75R1/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)  
hussain@DESKTOP-FUGABPT:~$
```

## Task 3:

### Ls Commands :

```
hussain@DESKTOP-FUGABPT: ~  
hussain@DESKTOP-FUGABPT:~$ pwd  
/home/hussain  
hussain@DESKTOP-FUGABPT:~$ ls /  
bin boot etc init lib usr-is-merged lost+found mnt proc run sbin usr-is-merged srv sys var  
hussain@DESKTOP-FUGABPT:~$ ls /bin  
NF do-release-upgrade ip pkmon system-repart  
X11 domainname ipcak pldd system-run  
[' dpgk ipcrm pl2pm system-socket-activate  
aa-enabled dpgk-architecture ipcs pldd system-stdio-bridge  
aa-exec dpgk-buildapi lchroot pmpp system-sysext  
aa-features-abi dpgk-buildflags join pod2html system-sysusers  
add-apt-repository dpgk-buildpackage journalctl pod2man system-tmpfiles  
addpart dpgk-buildtree json-patch-jsondiff pod2text system-tty-ask-password-agent  
add2line dpgk-checkbuilddeps json_pp pod2usage system-umount  
apport-bug dpgk-deb jsondiff podchecker tabs  
apport-rl dpgk-distaddfile jsonpatch podchecker tac  
apport-collect dpgk-divert jsonpointer pr tail  
apport-unpack dpgk-genbuildinfo jsonschema printenv tar  
appstreamcli dpgk-genchanges kbd-mode printf taskset  
apropos dpgk-gencontrol kbdinfo prlimit tbl  
apt dpgk-gensymbols kbxtutil pro tee  
apt-add-repository dpgk-maintscript-helper keep-one-running prove tempfile  
apt-cache dpgk-mergechangelogs kernel-install prtstat test  
apt-cdrom dpgk-name kill ps tic  
apt-config dpgk-parsechangelog killall psfaddtable time  
apt-extracttemplates dpgk-query kmod psfgettable timedatectl  
apt-ftparchive dpgk-realpath landscape-broker psfstriptable timeout  
apt-get dpgk-scansources landscape-client psfstriptable tkconch3  
apt-key dpgk-scansources landscape-config pslog tload  
apt-mark dpgk-shlibdeps landscape-manager pstree tmux  
apt-sortpkgs dpgk-source landscape-monitor pstree.x11 toe  
ar dpgk-split landscape-package-changer ptar top  
arch dpgk-statoverride landscape-package-reporter ptardiff touch  
as dpgk-trigger landscape-release-upgrader ptargrep tput  
automat-visualize3 dpgk-vendor landscape-sysinfo ptx tr  
awk du last purge-old-kernels trial3  
b2sum dumpkeys lastb pwd troff  
base32 dwp lastlog pwdx true  
base64 eatmydata lcf py3clean truncate  
basename ee2metadata ld py3compile tset  
basenc echo ld.bfd py3versions tsort  
bash ed ld.gold pybabel tty  
bashbug editor ld.so pybabel-python3 twist3
```