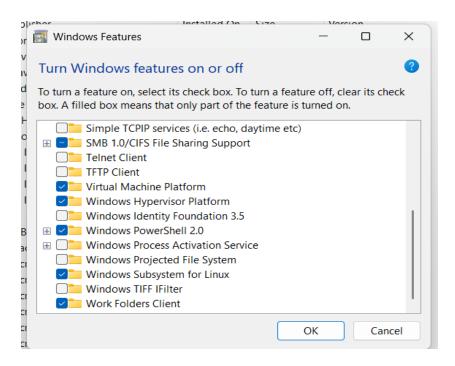
PRACTICAL No. 1

AIM: Installation of Java on Unix/Linux Machine (Without Virtual Box)

Step 1:

Enable WSL (Windows Sub System for Linux) from Control Pannel



Step 2: Power Shell (Run As Administrator)

Command: wsl --install

Step 3: Package Update

Command: sudo apt update

Step 4: Java Installation

Command: sudo apt install openjdk-11-jdk -y

```
Get: #1 http://archive.ubuntu.com/ubuntu noble-backgorts/universe and6# Packages [28.9 kB]

Get: #2 http://archive.ubuntu.com/ubuntu noble-backgorts/universe and6# Camponents [28.8 kB]

Get: #3 http://archive.ubuntu.com/ubuntu noble-backgorts/universe and6# Components [28.8 kB]

Get: #3 http://archive.ubuntu.com/ubuntu noble-backgorts/universe and6# Components [28.8 kB]

Get: #3 http://archive.ubuntu.com/ubuntu noble-backgorts/universe and6# Components [28.8 kB]

Get: #3 http://archive.ubuntu.com/ubuntu noble-backgorts/universe and6# Gomponents [28.8 kB]

Get: #3 http://archive.ubuntu.com/ubuntu noble-backgorts/restricted and6# Gomponents [28.8 kB]

Get: #3 http://archive.ubuntu.com/ubuntu noble-backgorts/multiverse and6# Gomponents [28.8 kB]

Get: #3 http://archive.ubuntu.com/ubuntu nob
```

PRACTICAL No. 1

Step 5: Verify Java Installation

Command: java -version

```
anurag@Auspecious:~$ java -version
openjdk version "11.0.28" 2025-07-15
OpenJDK Runtime Environment (build 11.0.28+6-post-Ubuntu-1ubuntu124.04.1)
OpenJDK 64-Bit Server VM (build 11.0.28+6-post-Ubuntu-1ubuntu124.04.1, mixed mode, sharing)
anurag@Auspecious:~$
```

Step 6: Set JAVA_HOME Environment Variable

```
t colored GCC warnings and errors
texport GCC_COLORS='error=01;31:warning=01;35:note=01;36:caret=01;32:locus=01:quote=01'
# Add an "alert" alias for long running commands. Use like so:
# sleep 10; alert
alias alert='notify-send --urgency=low -i "$([ $7 = 0 ] && echo terminal || echo error)" "$(history|tail -n1|sed -e '\''s/^\s*[0-9]\+\s*//;s/[;&|]\s*alert;2
       las definitions.
um may want to put all your additions into a separate file like
.bash_aliases, instead of adding them here directly.
ee /usr/share/doc/bash-doc/examples in the bash-doc package.
          -f ~/.bash_aliases ]; then
~/.bash_aliases
# enable programmable completion features (you don't need to enable
# this, if it's already enabled in /etc/bash.bashrc and /etc/profile
# sources /etc/bash.bashrc).
         hope 'oo posix' then hope 'oo posix' then hope 'oo posix' then '(usr/share/bash-completion/bash_completion ]; then '(usr/share/bash-completion bash_completion f [ - / etc/bash_completion ]; then '(etc/bash_completion ]; then '(etc/bash_completion );
  xport JAVA_HOME=/usr/lib/jvm/java-11-openjdk-amd64
xport PATH=$JAVA_HOME/bin:$PATH
^G Help
^X Exit
                            ^O Write Out
^R Read File
                                                                                                                     ^T Execute
^J Justify
                                                                                                                                                                                                                                         M-] To Bracket
^O Where Was
                                                          ^W Where Is
^\ Replace
                                                                                      ^K Cut
^U Paste
                                                                                                                                                  ^C Location
^/ Go To Line
                                                                                                                                                                               M-U Undo
M-E Redo
```

```
anurag@Auspecious:~$ nano ~/.bashrc
anurag@Auspecious:~$ source ~/.bashrc
anurag@Auspecious:~$ echo $JAVA_HOME
/usr/lib/jvm/java-11-openjdk-amd64
anurag@Auspecious:~$
```