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Subject: ICT

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VIM and G++ Installation

What is Vim:

Vim, short for Vi IMproved, is a highly configurable text editor built to enable efficient text editing. It's an enhanced version of the Vi editor, which was developed back in the 1970s. Vim is widely used by programmers, system administrators, and anyone who spends a significant amount of time working in the terminal.

Vim Installation Process:

Before installation the vim, we have to update list of available packages and their versions stored in system package index.

Note: This step is not compulsory, you can just skip this step.

To update, we have to open terminal and run this command: **sudo apt update.** This command will install all necessary updates for your PC.

```
musawarsayed@musawarsayed-Lenovo-V14-G3-IAP:-$ sudo apt update
[sudo] password for musawarsayed:
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://security.ubuntu.com/ubuntu noble-security/main amd64 Packages [354 kB]
Get:5 http://archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Get:6 http://security.ubuntu.com/ubuntu noble-security/main Translation-en [79.4 kB]
Get:7 http://security.ubuntu.com/ubuntu noble-security/main amd64 c-n-f Metadata [4,416 B]
Get:8 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Packages [317 kB]
Get:9 http://archive.ubuntu.com/ubuntu noble/universe amd64 Packages [15.0 MB]
Get:10 http://security.ubuntu.com/ubuntu noble-security/restricted Translation-e
```

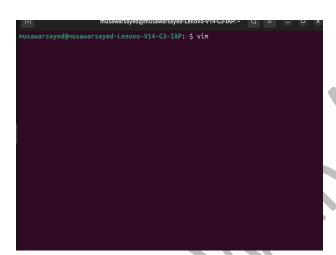
After updation has been done, you just install Vim on your pc from some simple commands

To install vim, write the command **sudo apt-get -y install vim** and press enter. It will automatically install vim on your systems.

After installation Vim, you have to check whether it is successfully installed or not.

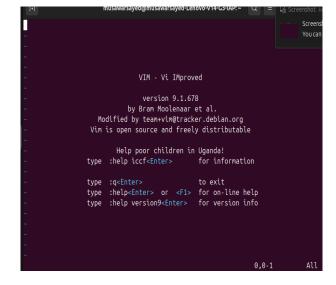
To check this, you have to run the command **vim --version** and press enter. It will show the version of vim installed on your system.

```
d@musawarsayed-Lenovo-V14-G3-IAP:-$ vim --version
nusawarsayed@nusawarsayed-Lenovo-V14-G3-TAP:-$ vim --version
VIM - Vi IMproved 9.1 (2024 Jan 02, compiled Aug 27 2024 04:08:09)
Included patches: 1-16, 647, 678
Modified by team+vim@tracker.debian.org
Compiled by team+vim@tracker.debian.org
Huge version without GUI. Features included (+) or not (-):
+acl +file_in_path +mouse_urxvt -tag_any_white
+arabic +find_in_path +mouse_xterm -tcl
+autocmd +float +multi_byte +termguicolors
+autocmd +floding +multi_byte +termguicolors
                                                                                                +mouse_urxvt
+mouse_xterm
+multi_byte
+multi_lang
-mzscheme
+netbeans_intg
  autochdir
autoservername
                                                +folding
-footer
                                                                                                                                                   +terminal
+terminfo
-balloon_eval
+balloon_eval_term
                                                +fork()
+gettext
                                                                                                                                                   +termresponse
+textobjects
-browse
++builtin_terms
                                                 -hangul_input
+iconv
                                                                                                 +packages
+path_extra
                                                                                                                                                   +textprop
+timers
+byte_offset
+channel
                                                 +insert expand
                                                                                                  -perl
+persistent_undo
                                                                                                  +popupwin
+postscript
+printer
                                                                                                                                                   +user_commands
+vartabs
+vertsplit
  cindent
                                                 +jumplist
                                                +keymap
+lambda
+langmap
  clipboard
  cmdline_compl
                                                                                                                                                   +viminfo
                                                 +libcall
+linebre
                                                                                                                                                   +virtualedit
+visual
```



You can run the vim on the terminal by typing **vim** in the terminal.

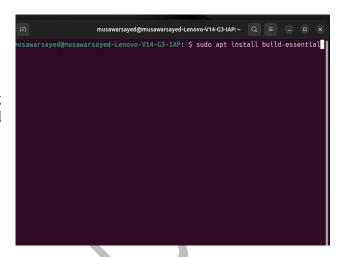
The vim editor will look like this ===>

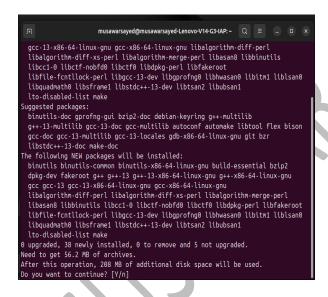


Gcc And G++ Installation process:

To install gcc and g++ on your system. You have to do some simple and basic tasks and run some basic commands.

First you need to run the following command on your terminal. **sudo apt install build-essential.**

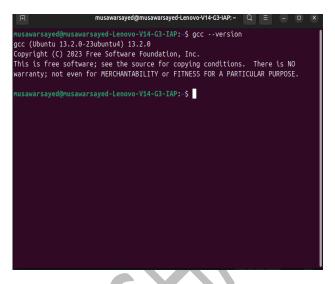


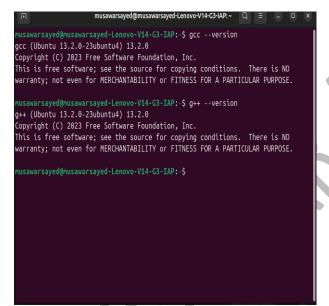


It will automatically start installing the build essentials and compilers like gcc and g++ on your system.

You can see in the bottom written **Do you** want to continue? [Y/n] just click Y and press enter.

To check the version of gcc, write **gcc** -- **version** in the terminal and it will show you which version of gcc is installed on your system.





To check g++ version, you have to just type g++ --version, it will show the version of g++ installed on your system.