



1 The procedure to install gcc and g++ compiler in Ubuntu Linux OS

1. To follow the installation procedure, you need to be connected to the **internet**.
2. To install **g++** compiler manually, open the **terminal** by pressing **Alt + CTRL + T** keys together.
3. Type `sudo apt-get install g++`
4. It will prompt for a **password**.
5. Type your **password**.
6. Disk space will be displayed and you will be asked to confirm and go ahead.
7. Confirm by typing **'Y'**.
8. The installation will take a few minutes.
9. **g++** will get installed.
10. To check the installation, type: `g++ -v`
11. The version of **gcc / g++** will be displayed.
12. This shows that the installation is successfully done.

2 The procedure to install C and C++ in Windows OS

1. To follow the installation procedure, you need to be connected to the internet.
2. For Windows OS, we will install MinGW compiler.
3. Go to <http://sourceforge.net/projects/mingw/files/Installer/>
4. Please locate the executable file `mingw-get-setup.exe`
5. Click on this `.exe` file.
6. A dialog box appears prompting you to either Run or Save the file.
7. If you clicked on the Run button, the Installation Wizard will open.
8. If you clicked on the Save button, go to the location where you saved the file and double-click on the `.exe` file. This will open the Installation Wizard.
9. Click on Install button.
10. Then click on Continue button.
11. Again click on Continue button.
12. Click on the `mingw32-gcc-g++ GNU C++ Compiler` check box and click on Mark for Installation.
13. Now check the option for `mingw32-gcc-objc The GNU Objective-C Compiler` also and click on Mark for Installation.
14. Click on Installation option on the top left hand side corner.
15. Then click on Apply changes button.
16. Once again, click on Apply button.
17. Finally, click on Close button. This will install `gcc` and `g++` compiler on your system.
18. Close the window.
19. Next, we need to set the path for the System Variables.
20. Right-click on My Computer or type ‘‘This PC’’ in the search bar in Windows 10.
21. In Windows 10, you will have to additionally right-click on ‘‘This PC’’.
22. Click on Properties.
23. Then click on the Advanced tab or Advanced System Settings link.
24. Click on Environment Variables.
25. Then under System Variables select the Path.
26. Double-click on the Path.
27. This will open a dialog box Edit System Variable.
28. In Variable value, type the location where the bin file is present.
29. Add a semicolon (;) before adding the path.
For example: `;C:/MinGW/bin`
30. This will avoid overwriting the paths you have set previously.
31. Now, open the command prompt and type `gcc -v` and press Enter.
32. This will display the version no. of the `gcc` installed.
33. This shows that the installation is successfully done.