SWT11022: Practical for Fundamentals of Programming
Department of ICT
Faculty of Technology
South Eastern University of Sri Lanka

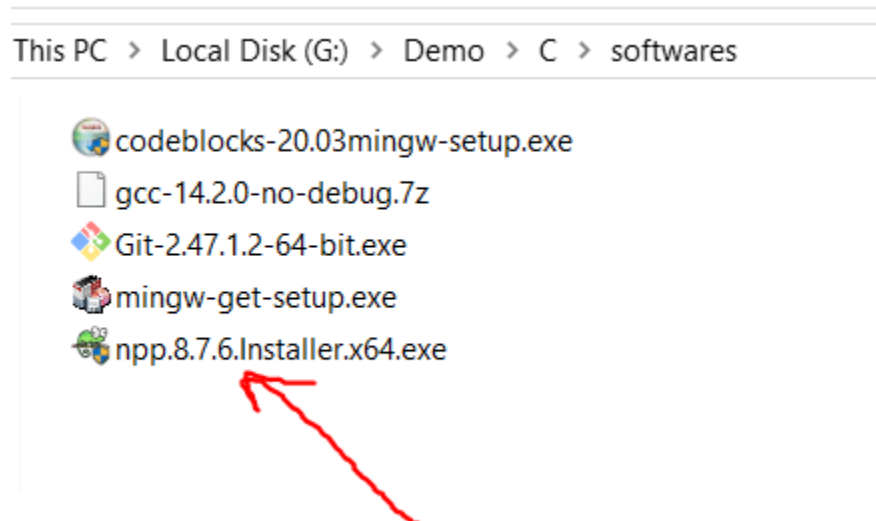**Practical 1: Setting up the Programming / Development Environment**

Steps:

1. **Install Notepad++:**

   - Go to below link
   https://notepad-plus-plus.org/downloads/
   - Click on latest version → Click on download button.
   - Once downloaded, click on exe file

   This PC > Local Disk (G:) > Demo > C > softwares

   - codeblocks-20.03mingw-setup.exe
   - gcc-14.2.0-no-debug.7z
   - Git-2.47.1.2-64-bit.exe
   - mingw-get-setup.exe
   - npp.8.7.6.Installer.x64.exe

   - Click Yes → Click ok

   Installer Language ✕

   Please select a language.

   English ▾

   OK   Cancel
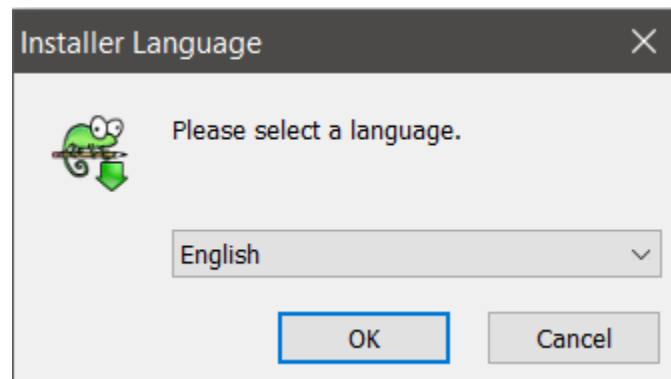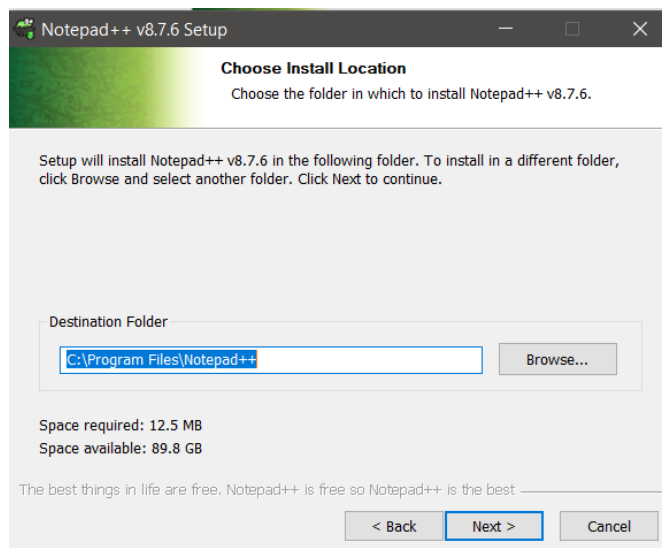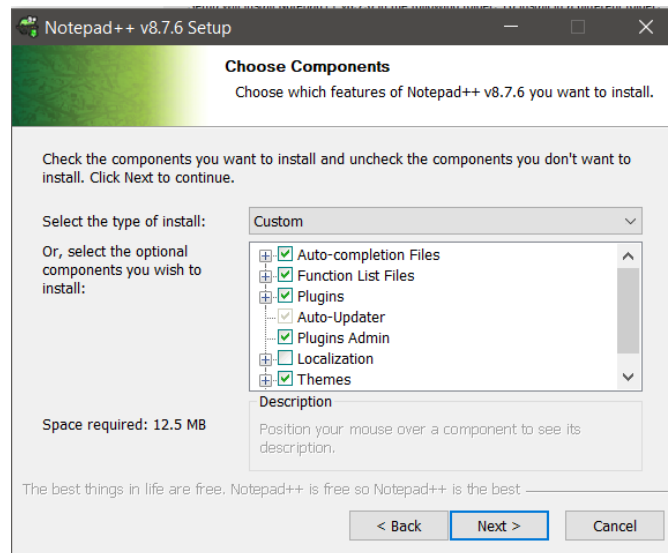
- Click Next

- Click on I Agree
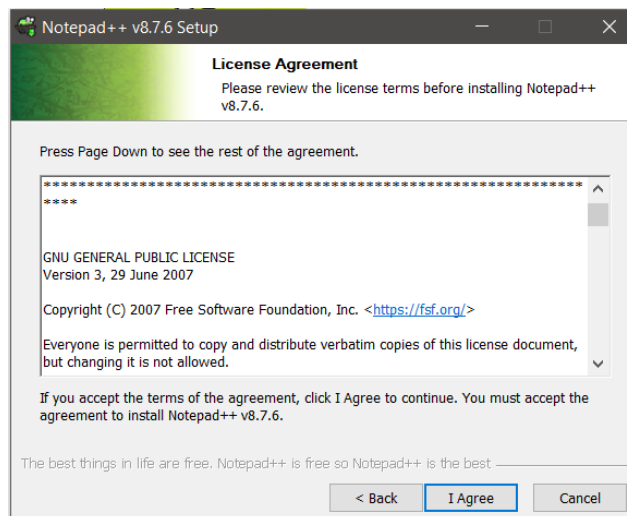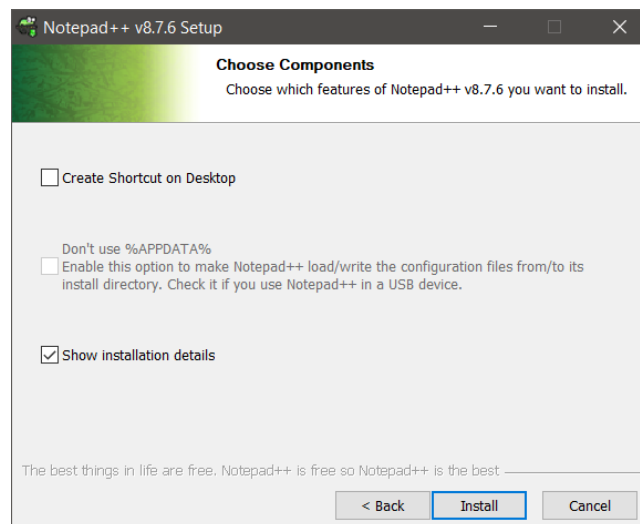

- Click on Next

- Click on Next

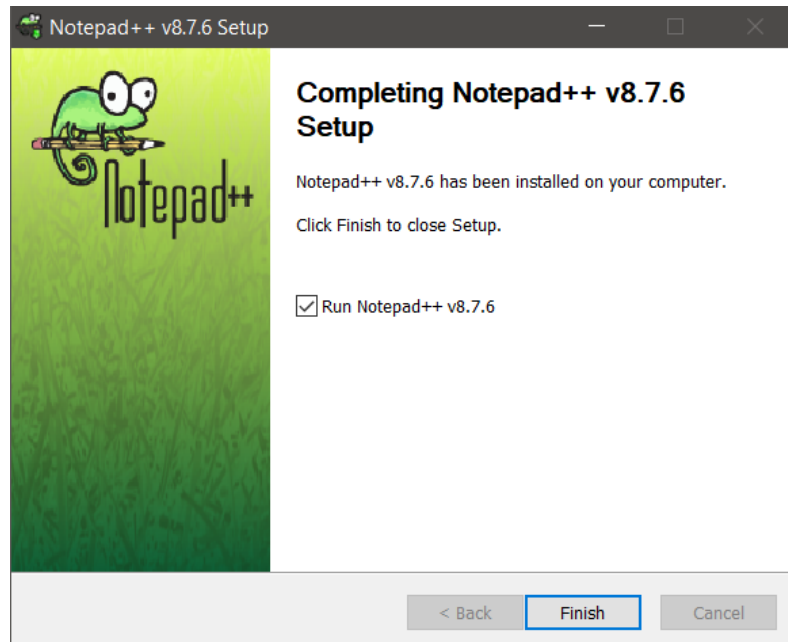
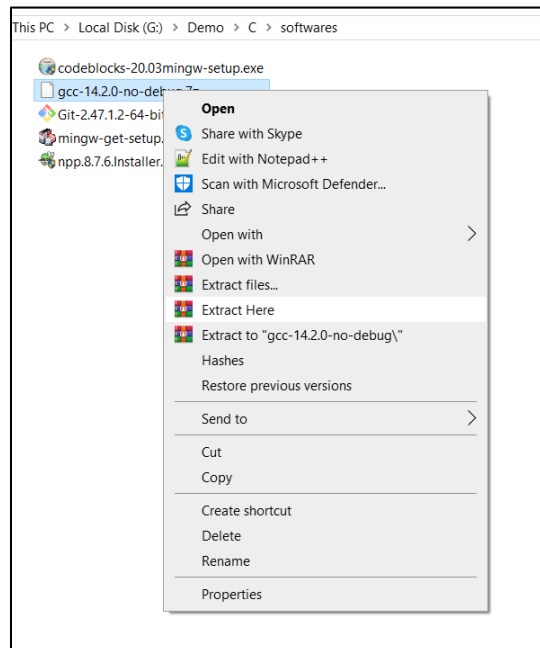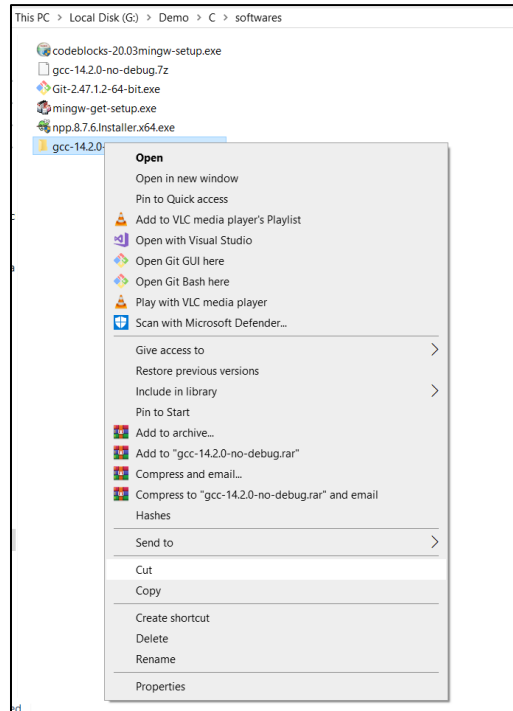
- Click on Install

- Click on Next

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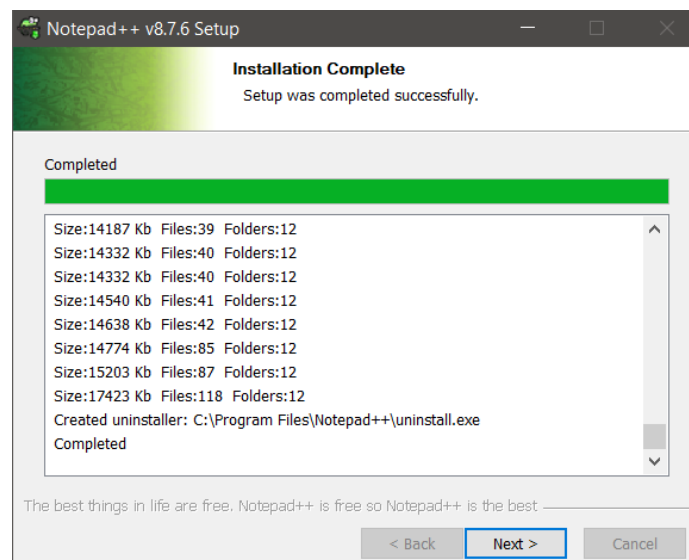
- Click on Finish.

2. **Installation of GCC (GNU Compiler Collection):**

- Go to below link.
    https://sourceforge.net/projects/gcc-win64/
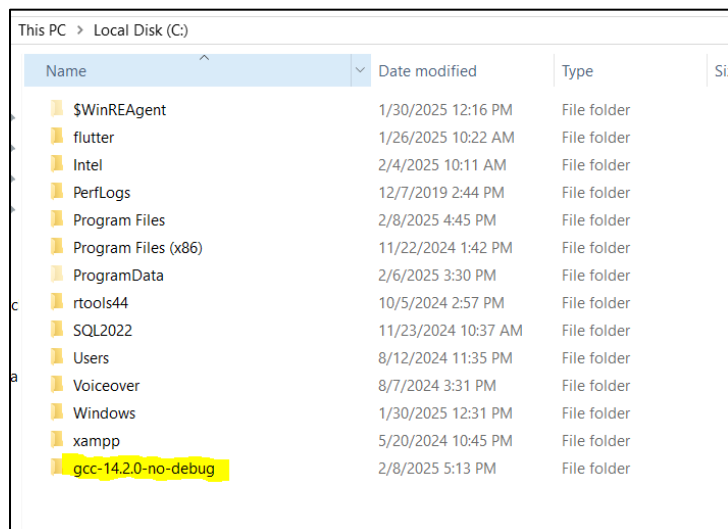
- Scroll down and click on latest version to download.

- After completion, extract the Zip folder to the existing folder
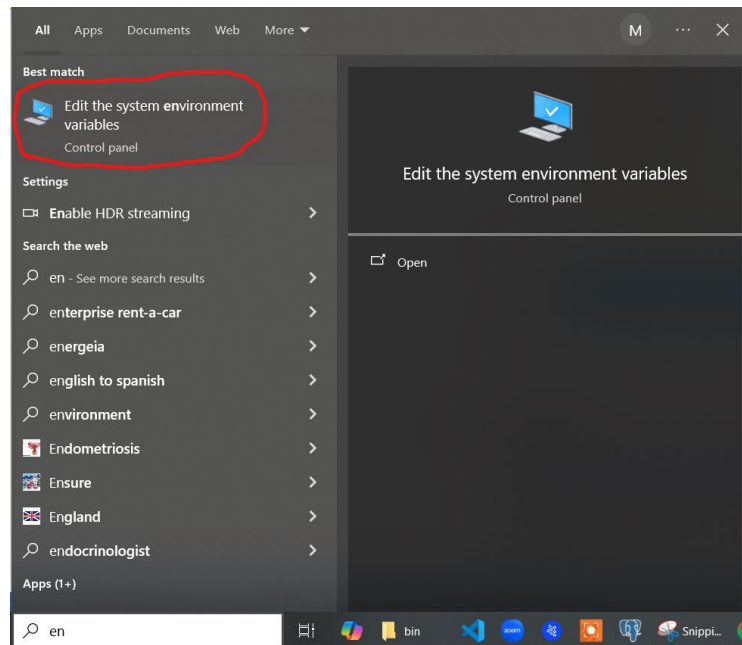
- Then cut paste to C drive.
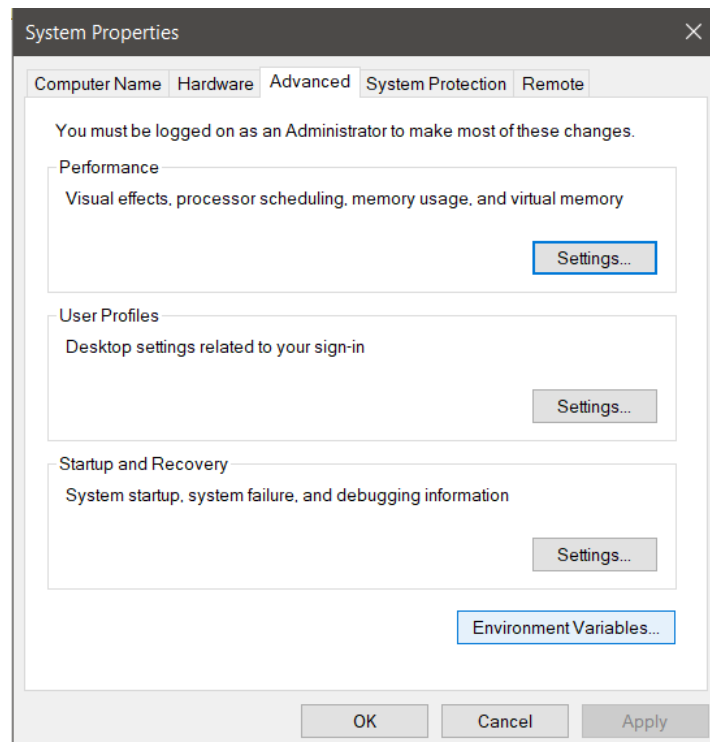

  - Then go to C drive and paste it.

- Then go to this path → C:\gcc-14.2.0\bin   and copy the path in address bar.
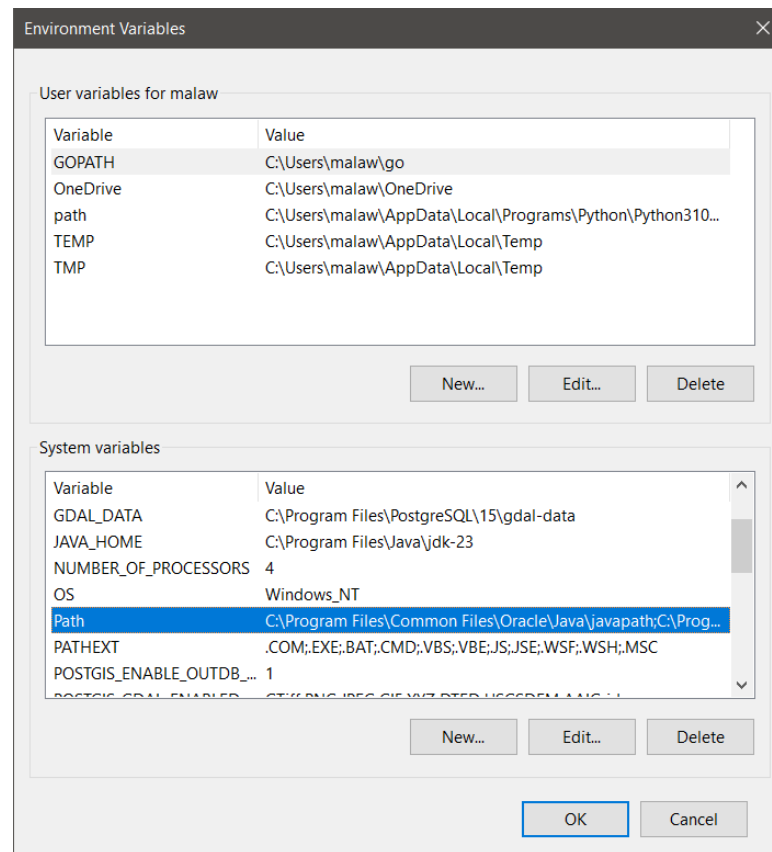
- Set the folder path in System Environment Variable

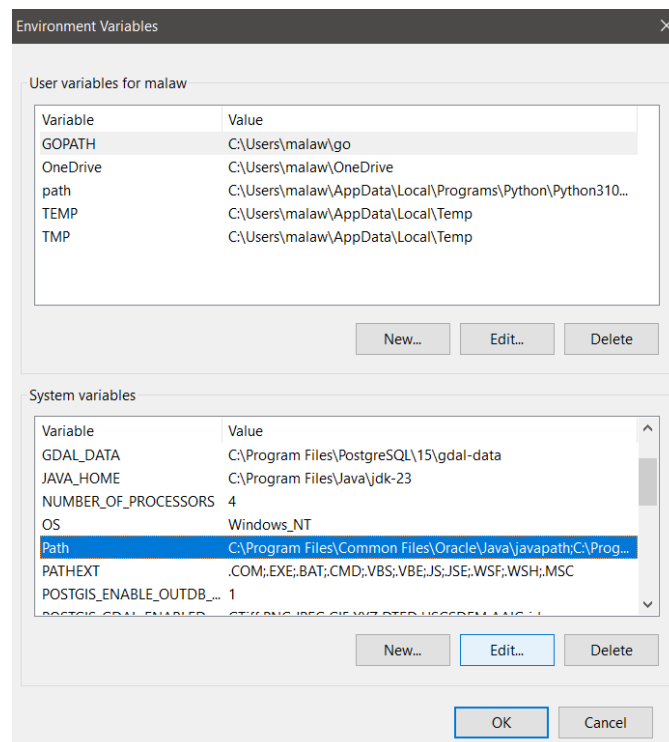   o Type en in search bar and click on marked one.
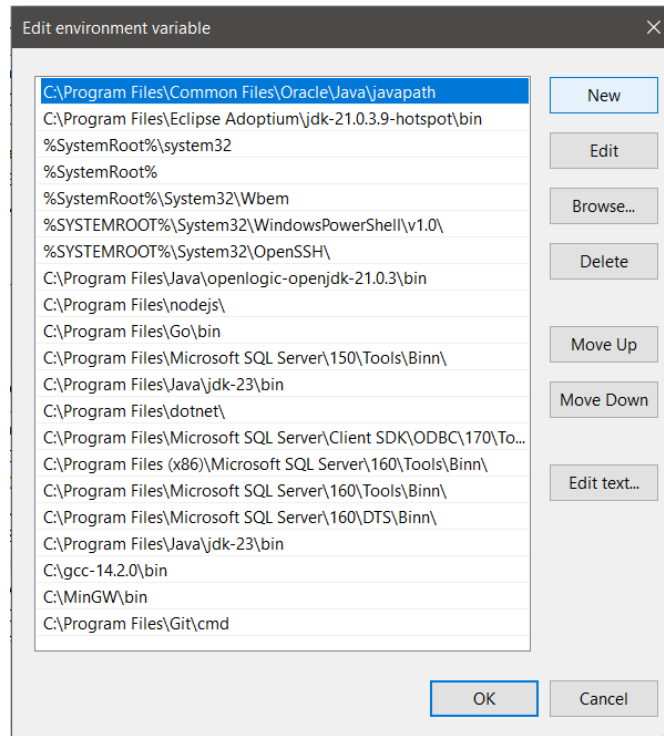

    o Click on Environment Variables.
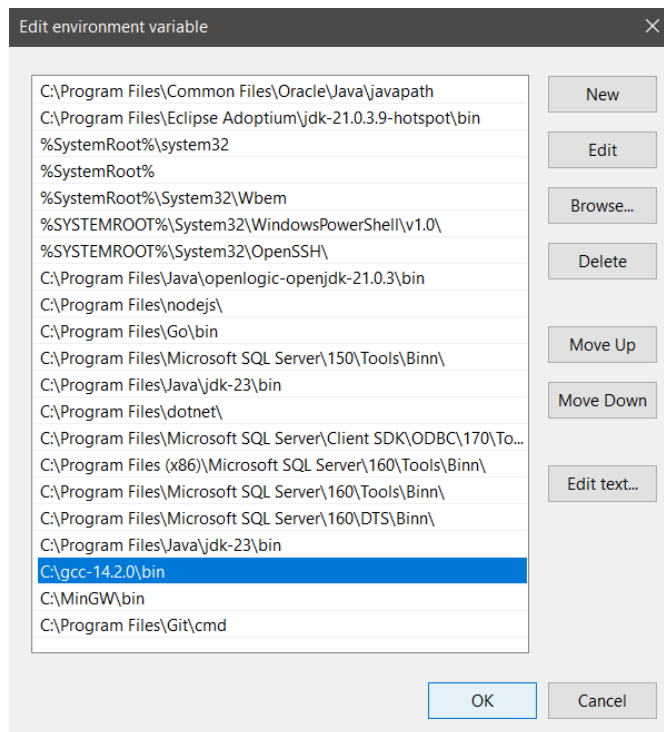
o   Click on Path in System Variables.

o   Click on Edit

○ Click on New

○ Paste the path that copied. Then Click Ok → Ok → Ok

- To verify the installation, open command prompt and type → gcc --version

3. **Install the codeblock:**
   - Go to below link and scroll down to Microsoft Windows
     https://www.codeblocks.org/downloads/binaries/#google_vignette
   - Need to download "codeblocks-20.03mingw-setup.exe" file. Click on "Sourceforge.net" then it will download.

   - Go to folder and open downloaded file.
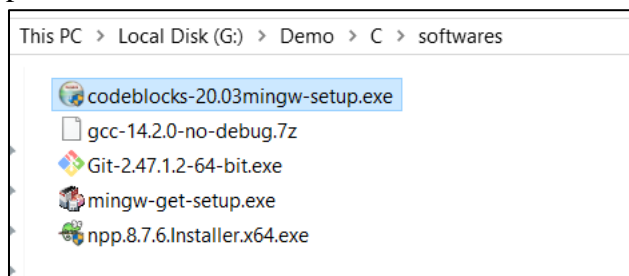
- Clicking on Next
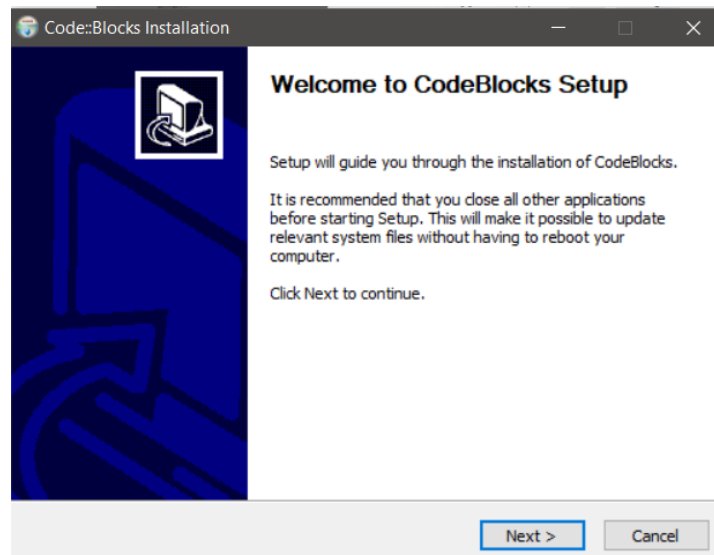
- Click on Agree
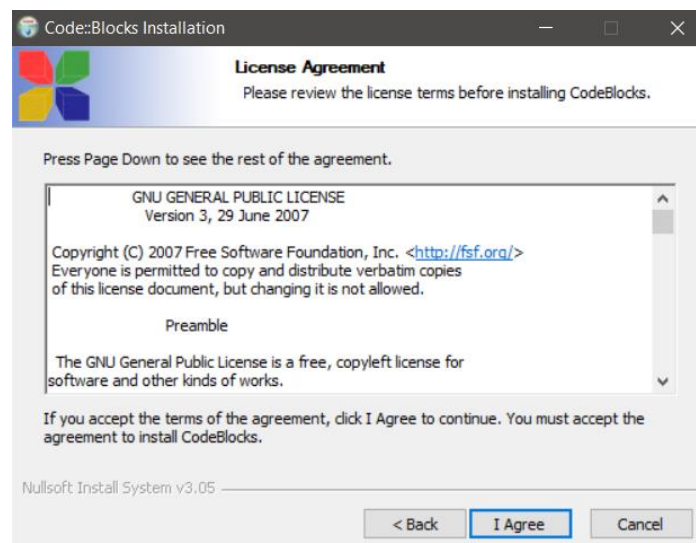
- Click Next
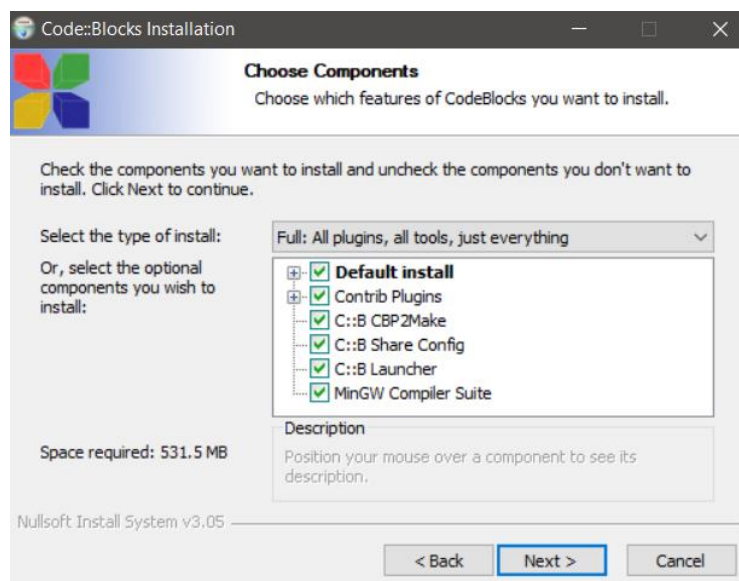
- Click Install
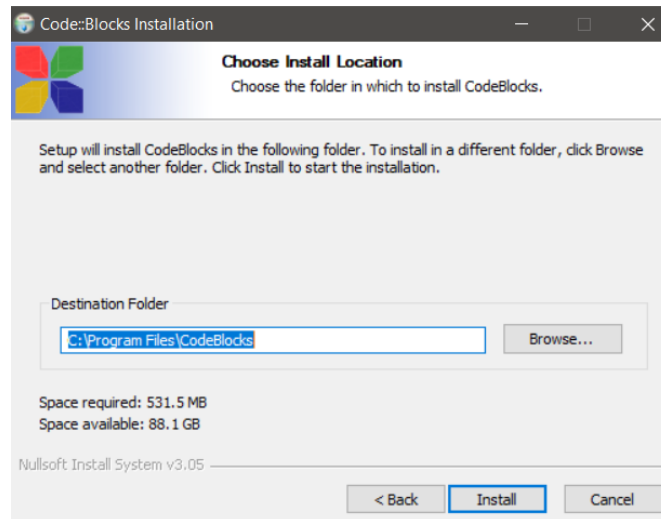
- After installation complete, will get a window click No → Click Next
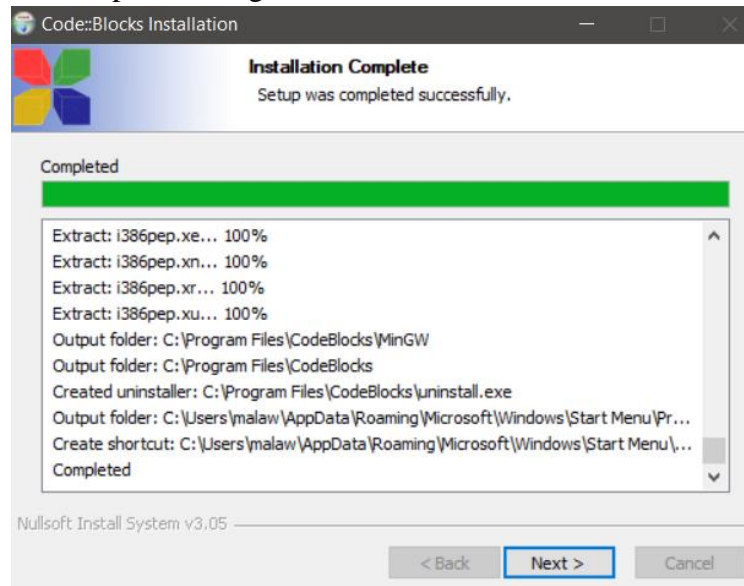
- Finish → Ok

4. **Install MinGW:**
   - Go to below link
     https://sourceforge.net/projects/mingw/
   - Click on download.
   - Once it completed, click on MinGW setup

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- Click on Install

- Click On Continue

- Click on continue

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- Then select each of them and click on Mark for installation.

- Once done, Click on Installation → Apply Changes

- Click Apply.

MinGW Installation Manager

Installation   Package   Settings

Basic Setup		Package	Class	Installed Version	Repository V

Schedule of Pending Actions

Okay to proceed?

The package changes itemised below will
be implemented when you choose "Apply"

[Apply]   [Defer]   [Discard]

0 installed packages will be removed

0 installed packages will be upgraded

122 new/upgraded packages will be installed

```
msysCORE-1.0.19-1-msys-1.0.19-doc.tar.xz
termcap-0.20050421_1-2-msys-1.0.13-bin.tar.lzma
libguile-1.8.7-2-msys-1.0.15-rtm.tar.lzma
libregex-1.20090805-2-msys-1.0.13-dll-1.tar.lzma
libtermcap-0.20050421_1-2-msys-1.0.13-dll-0.tar.lzma
libpopt-1.15-2-msys-1.0.13-dll-0.tar.lzma
```

- Once installed successfully, click on Close →Close.

Applying Scheduled Changes

All changes were applied successfully; you may now close this dialogue.

☐ Close dialogue automatically, when activity is complete.   [Close]
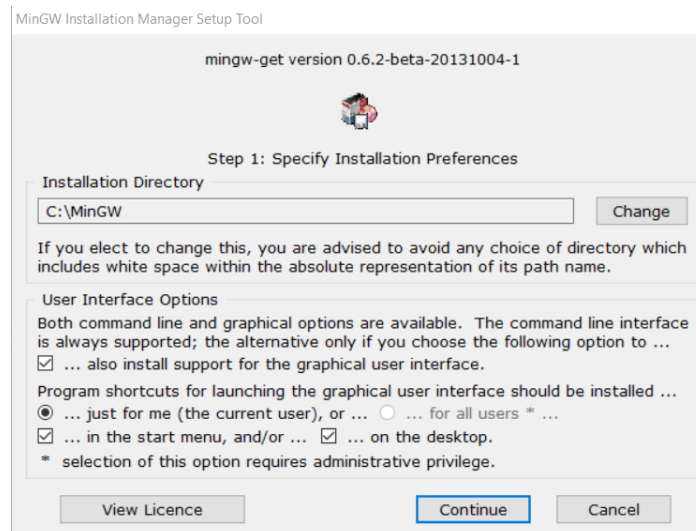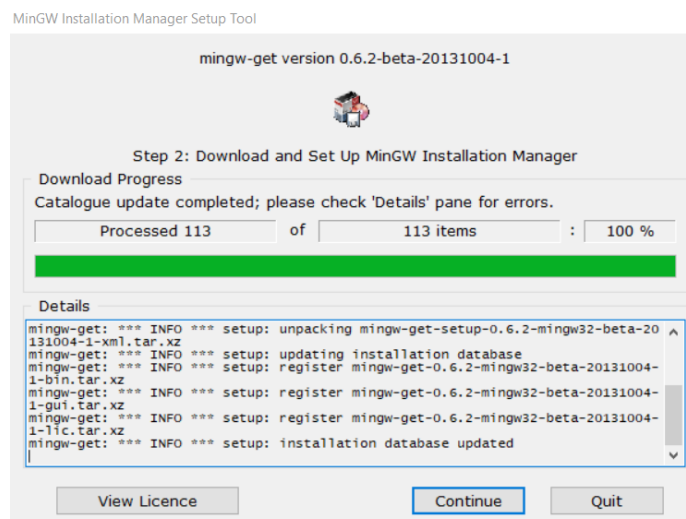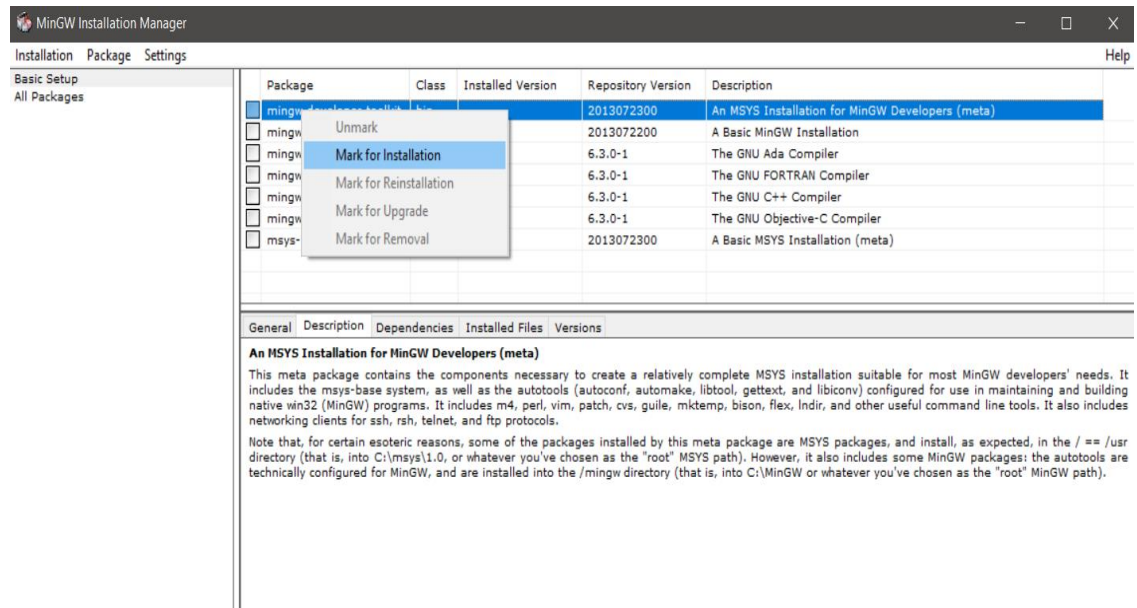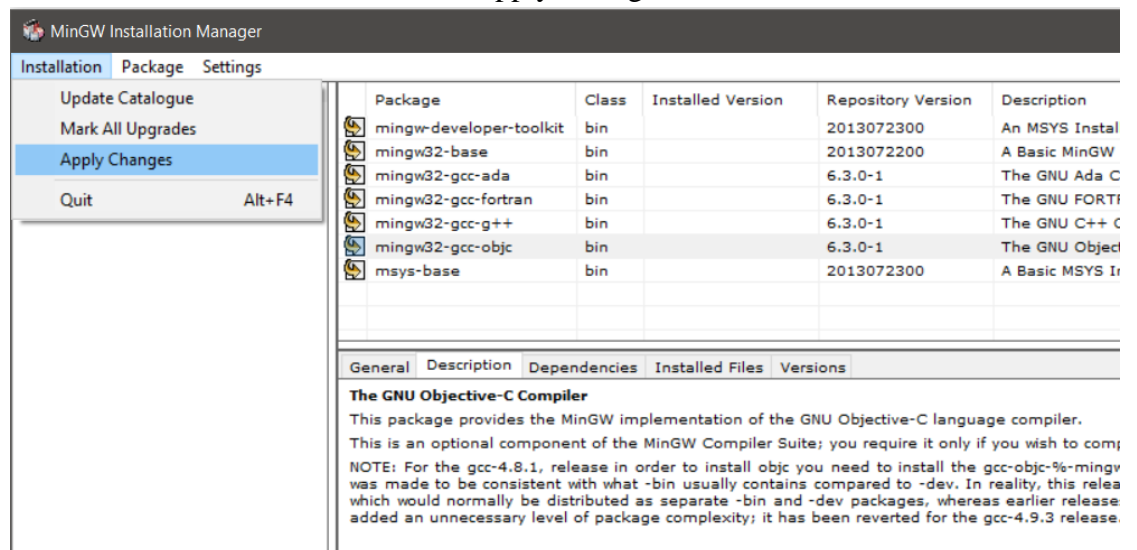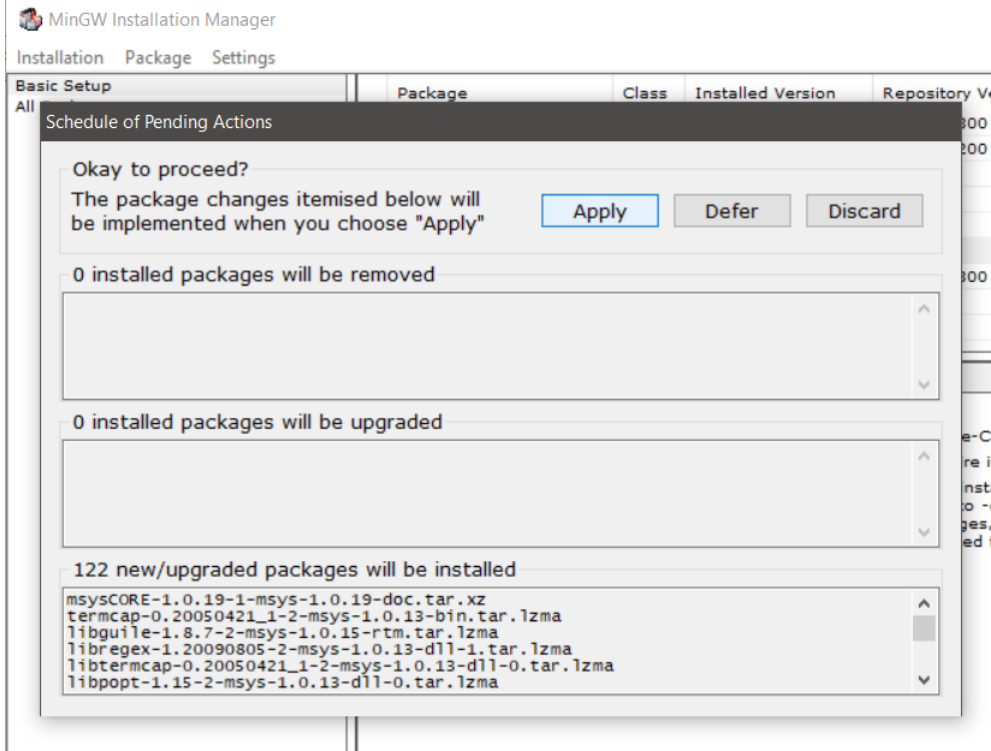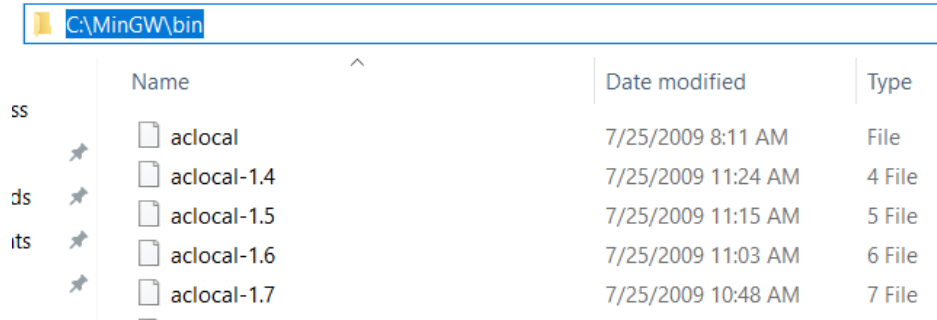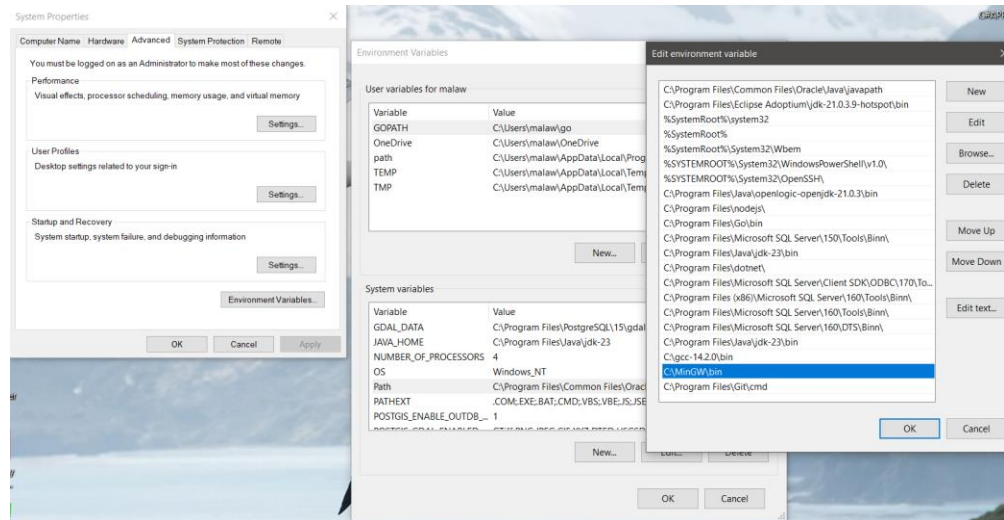
Details

```
install: libgfortran-6.3.0-1-mingw32-dll-3.tar.xz
 installing libgfortran-6.3.0-1-mingw32-dll-3.tar.xz
install: gcc-fortran-4.8.2-mingw32-dev.tar.meta
 installing gcc-fortran-4.8.2-mingw32-dev.tar.meta
install: gcc-objc-4.8.2-mingw32-dev.tar.meta
 installing gcc-objc-4.8.2-mingw32-dev.tar.meta
install: gcc-core-6.3.0-1-mingw32-bin.tar.xz
 installing gcc-core-6.3.0-1-mingw32-bin.tar.xz
install: mingw32-base-2013072200-mingw32-bin.meta
 installing mingw32-base-2013072200-mingw32-bin.meta
install: gcc-ada-4.8.2-mingw32-dev.tar.meta
 installing gcc-ada-4.8.2-mingw32-dev.tar.meta
install: gcc-ada-6.3.0-1-mingw32-bin.tar.xz
 installing gcc-ada-6.3.0-1-mingw32-bin.tar.xz
install: gcc-fortran-6.3.0-1-mingw32-bin.tar.xz
 installing gcc-fortran-6.3.0-1-mingw32-bin.tar.xz
install: gcc-c++-4.8.2-mingw32-dev.tar.meta
 installing gcc-c++-4.8.2-mingw32-dev.tar.meta
install: gcc-c++-6.3.0-1-mingw32-bin.tar.xz
 installing gcc-c++-6.3.0-1-mingw32-bin.tar.xz
install: libobjc-6.3.0-1-mingw32-dll-4.tar.xz
 installing libobjc-6.3.0-1-mingw32-dll-4.tar.xz
install: gcc-objc-6.3.0-1-mingw32-bin.tar.xz
 installing gcc-objc-6.3.0-1-mingw32-bin.tar.xz
```

- Set the path in System Environment Variable.
  - Copy the path bin as below

  - Go to environment variable and set the path as previous way.

- To verify installation type → g++ --version.

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