





Họ tên: Nguyễn Lan Hương

MSSV: 23520588

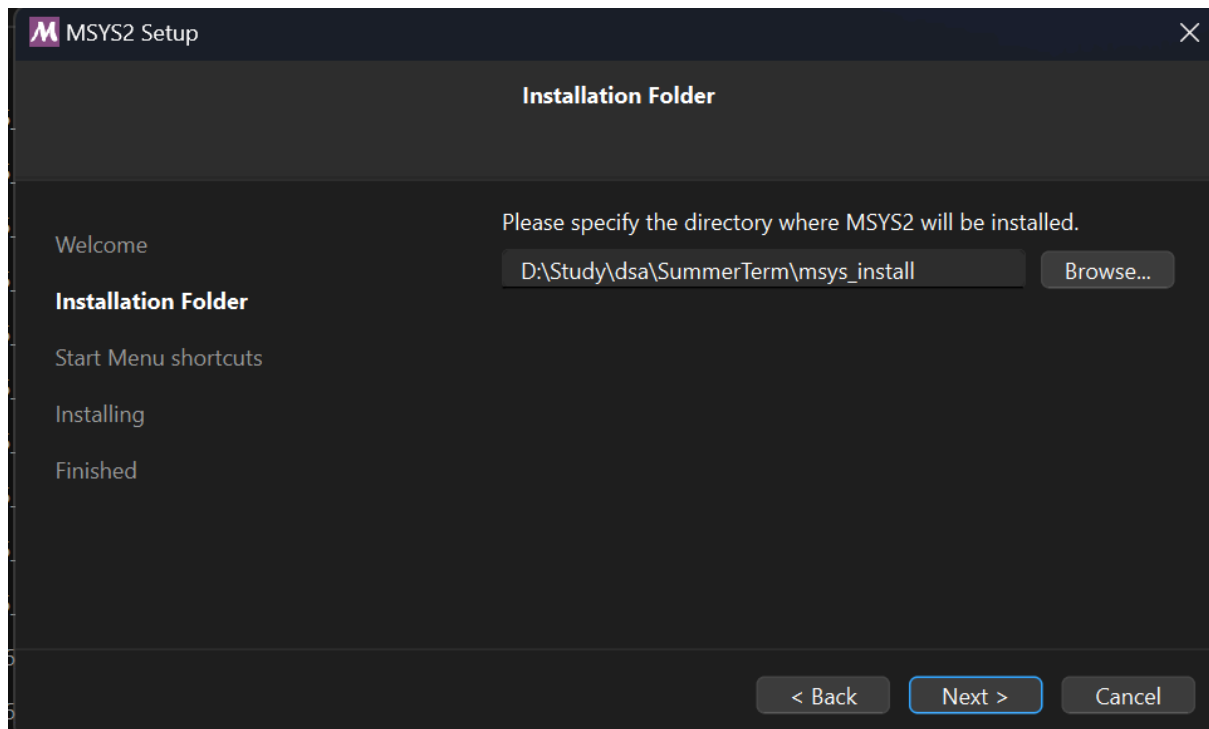
### Bài tập Thực hành Tuần 1 - Điểm danh

Bước 1 + 2:

|   |              |                   |                        |            |
|---|--------------|-------------------|------------------------|------------|
|  | msys         | 7/16/2025 8:16 AM | File folder            |            |
|  | msys_install | 7/16/2025 8:17 AM | File folder            |            |
|  | TH           | 7/16/2025 8:10 AM | File folder            |            |
|  | msys         | 7/16/2025 8:02 AM | Compressed (zipped)... | 134,030 KB |

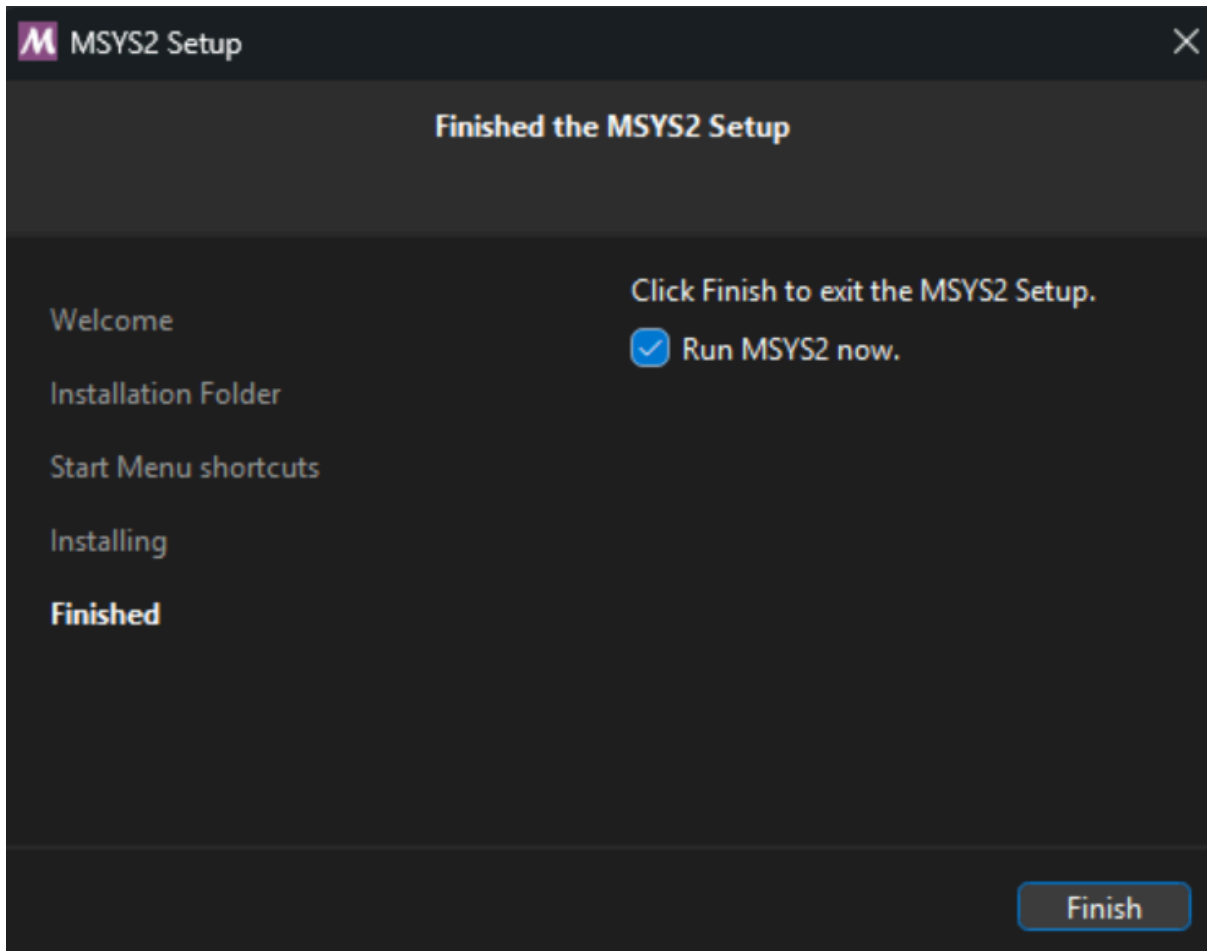
- Tải <https://cs.uit.edu.vn/local/msys.zip>
  - + Sau khi tải được file zip msys
- Giải nén vào thư mục rỗng
  - + Giải nén vào file msys\_install

Bước 3:



Truy cập trang web [msys2.org](https://msys2.org) và làm theo hướng dẫn từ bước 3 -> 5)

Bước 4:



Truy cập trang web [msys2.org](https://msys2.org) và làm theo hướng dẫn từ bước 3 -> 5)

Bước 5:

```
/d/Study/dsa/SummerTerm/msys
Tina@DESKTOP-AT94MV7 UCRT64 ~
$ cd D:/Study/dsa/SummerTerm/msys
Tina@DESKTOP-AT94MV7 UCRT64 /d/Study/dsa/SummerTerm/msys
$ pacman -u %*st
loading packages...
warning: bash-5.2.037-2 is up to date -- reinstalling
warning: filesystem-2025.05.08-1 is up to date -- reinstalling
warning: mingw-w64-ucrt-x86_64-binutils-2.43.1-1 is up to date -- reinstalling
warning: mingw-w64-ucrt-x86_64-crt-git-12.0.0.r387.gcf5c50cce-1 is up to date -- reinstalling
warning: mingw-w64-ucrt-x86_64-gcc-14.2.0-2 is up to date -- reinstalling
warning: mingw-w64-ucrt-x86_64-gcc-libs-14.2.0-2 is up to date -- reinstalling
warning: mingw-w64-ucrt-x86_64-gettext-runtime-0.22.5-2 is up to date -- reinstalling
warning: mingw-w64-ucrt-x86_64-gmp-6.3.0-2 is up to date -- reinstalling
warning: mingw-w64-ucrt-x86_64-headers-git-12.0.0.r387.gcf5c50cce-1 is up to date -- reinstalling
warning: mingw-w64-ucrt-x86_64-isl-0.27-1 is up to date -- reinstalling
warning: mingw-w64-ucrt-x86_64-libconv-1.17-4 is up to date -- reinstalling
warning: mingw-w64-ucrt-x86_64-libwinpthread-git-12.0.0.r387.gcf5c50cce-1 is up to date -- reinstalling
warning: mingw-w64-ucrt-x86_64-mpc-1.3.1-2 is up to date -- reinstalling
warning: mingw-w64-ucrt-x86_64-mpfr-4.2.1-2 is up to date -- reinstalling
warning: mingw-w64-ucrt-x86_64-windows-default-manifest-6.4-4 is up to date -- reinstalling
warning: mingw-w64-ucrt-x86_64-winpthreads-git-12.0.0.r387.gcf5c50cce-1 is up to date -- reinstalling
warning: mingw-w64-ucrt-x86_64-zlib-1.3.1-1 is up to date -- reinstalling
warning: mingw-w64-ucrt-x86_64-zstd-1.5.6-2 is up to date -- reinstalling
warning: mntty-1-3.7.8-1 is up to date -- reinstalling
warning: msys2-runtime-3.6.3-2 is up to date -- reinstalling
warning: nano-syntax-highlighting-2020.10.10-4 is up to date -- reinstalling
resolving dependencies...
looking for conflicting packages...

Packages (21) bash-5.2.037-2  filesystem-2025.05.08-1  mingw-w64-ucrt-x86_64-binutils-2.43.1-1
mingw-w64-ucrt-x86_64-crt-git-12.0.0.r387.gcf5c50cce-1
mingw-w64-ucrt-x86_64-gcc-14.2.0-2  mingw-w64-ucrt-x86_64-gcc-libs-14.2.0-2
mingw-w64-ucrt-x86_64-gettext-runtime-0.22.5-2  mingw-w64-ucrt-x86_64-gmp-6.3.0-2
mingw-w64-ucrt-x86_64-headers-git-12.0.0.r387.gcf5c50cce-1
mingw-w64-ucrt-x86_64-isl-0.27-1  mingw-w64-ucrt-x86_64-libconv-1.17-4
mingw-w64-ucrt-x86_64-libwinpthread-git-12.0.0.r387.gcf5c50cce-1
mingw-w64-ucrt-x86_64-mpc-1.3.1-2  mingw-w64-ucrt-x86_64-mpfr-4.2.1-2
mingw-w64-ucrt-x86_64-windows-default-manifest-6.4-4
mingw-w64-ucrt-x86_64-winpthreads-git-12.0.0.r387.gcf5c50cce-1
mingw-w64-ucrt-x86_64-zlib-1.3.1-1  mingw-w64-ucrt-x86_64-zstd-1.5.6-2
mntty-1-3.7.8-1  msys2-runtime-3.6.3-2  nano-syntax-highlighting-2020.10.10-4

Total Installed Size: 537.73 MiB
Net Upgrade Size: 0.00 MiB
```

Sau khi làm theo trang web ta sẽ được màn hình terminal (em quên chụp màn hình trước đó ạ)

## Bước 6:

```
Tina@DESKTOP-AI94MV7 UCRT64 ~  
$ cd D:/Study/dsa/SummerTerm/msys
```

Chạy lệnh `cd\<thư mục bất kì>` (như trên)

## Bước 7:

```
Tina@DESKTOP-AI94MV7 UCRT64 /d/Study/dsa/SummerTerm/msys  
$ pacman -U *zst  
loading packages...  
warning: bash-5.2.037-2 is up to date -- reinstalling  
warning: filesystem-2025.05.08-1 is up to date -- reinstalling  
warning: mingw-w64-ucrt-x86_64-binutils-2.43.1-1 is up to date -- reinstalling  
warning: mingw-w64-ucrt-x86_64-crt-git-12.0.0.r387.gcf5c50cce-1 is up to date -- reinstalling  
warning: mingw-w64-ucrt-x86_64-gcc-14.2.0-2 is up to date -- reinstalling  
warning: mingw-w64-ucrt-x86_64-gcc-libs-14.2.0-2 is up to date -- reinstalling  
warning: mingw-w64-ucrt-x86_64-gettext-runtime-0.22.5-2 is up to date -- reinstalling  
warning: mingw-w64-ucrt-x86_64-gmp-6.3.0-2 is up to date -- reinstalling  
warning: mingw-w64-ucrt-x86_64-headers-git-12.0.0.r387.gcf5c50cce-1 is up to date -- reinstalling  
warning: mingw-w64-ucrt-x86_64-isl-0.27-1 is up to date -- reinstalling  
warning: mingw-w64-ucrt-x86_64-libiconv-1.17-4 is up to date -- reinstalling  
warning: mingw-w64-ucrt-x86_64-libwinpthread-git-12.0.0.r387.gcf5c50cce-1 is up to date -- reinstall  
ing  
warning: mingw-w64-ucrt-x86_64-mpc-1.3.1-2 is up to date -- reinstalling  
warning: mingw-w64-ucrt-x86_64-mpfr-4.2.1-2 is up to date -- reinstalling  
warning: mingw-w64-ucrt-x86_64-windows-default-manifest-6.4-4 is up to date -- reinstalling  
warning: mingw-w64-ucrt-x86_64-winpthreads-git-12.0.0.r387.gcf5c50cce-1 is up to date -- reinstallin  
g  
warning: mingw-w64-ucrt-x86_64-zlib-1.3.1-1 is up to date -- reinstalling  
warning: mingw-w64-ucrt-x86_64-zstd-1.5.6-2 is up to date -- reinstalling  
warning: mintty-1~3.7.8-1 is up to date -- reinstalling  
warning: msys2-runtime-3.6.3-2 is up to date -- reinstalling  
warning: nano-syntax-highlighting-2020.10.10-4 is up to date -- reinstalling  
resolving dependencies...  
looking for conflicting packages...  
  
Packages (21) bash-5.2.037-2 filesystem-2025.05.08-1 mingw-w64-ucrt-x86_64-binutils-2.43.1-1  
mingw-w64-ucrt-x86_64-crt-git-12.0.0.r387.gcf5c50cce-1  
mingw-w64-ucrt-x86_64-gcc-14.2.0-2 mingw-w64-ucrt-x86_64-gcc-libs-14.2.0-2  
mingw-w64-ucrt-x86_64-gettext-runtime-0.22.5-2 mingw-w64-ucrt-x86_64-gmp-6.3.0-2  
mingw-w64-ucrt-x86_64-headers-git-12.0.0.r387.gcf5c50cce-1  
mingw-w64-ucrt-x86_64-isl-0.27-1 mingw-w64-ucrt-x86_64-libiconv-1.17-4  
mingw-w64-ucrt-x86_64-libwinpthread-git-12.0.0.r387.gcf5c50cce-1  
mingw-w64-ucrt-x86_64-mpc-1.3.1-2 mingw-w64-ucrt-x86_64-mpfr-4.2.1-2  
mingw-w64-ucrt-x86_64-windows-default-manifest-6.4-4  
mingw-w64-ucrt-x86_64-winpthreads-git-12.0.0.r387.gcf5c50cce-1  
mingw-w64-ucrt-x86_64-zlib-1.3.1-1 mingw-w64-ucrt-x86_64-zstd-1.5.6-2  
mintty-1~3.7.8-1 msys2-runtime-3.6.3-2 nano-syntax-highlighting-2020.10.10-4
```

```
Total Installed Size: 537.73 MiB  
Net Upgrade Size: 0.00 MiB  
  
:: Proceed with installation? [Y/n] y  
(21/21) checking keys in keyring [#####] 100%  
(21/21) checking package integrity [#####] 100%  
(21/21) loading package files [#####] 100%  
(21/21) checking for file conflicts [#####] 100%  
(21/21) checking available disk space [#####] 100%  
:: Processing package changes...  
(1/21) reinstalling bash [#####] 100%  
(2/21) reinstalling filesystem [#####] 100%  
(3/21) reinstalling mingw-w64-ucrt-x86_64-libwinpthread-git [#####] 100%  
(4/21) reinstalling mingw-w64-ucrt-x86_64-gcc-libs [#####] 100%  
(5/21) reinstalling mingw-w64-ucrt-x86_64-libiconv [#####] 100%  
(6/21) reinstalling mingw-w64-ucrt-x86_64-gettext-runtime [#####] 100%  
(7/21) reinstalling mingw-w64-ucrt-x86_64-zlib [#####] 100%  
(8/21) reinstalling mingw-w64-ucrt-x86_64-zstd [#####] 100%  
(9/21) reinstalling mingw-w64-ucrt-x86_64-binutils [#####] 100%  
(10/21) reinstalling mingw-w64-ucrt-x86_64-headers-git [#####] 100%  
(11/21) reinstalling mingw-w64-ucrt-x86_64-crt-git [#####] 100%  
(12/21) reinstalling mingw-w64-ucrt-x86_64-gmp [#####] 100%  
(13/21) reinstalling mingw-w64-ucrt-x86_64-isl [#####] 100%  
(14/21) reinstalling mingw-w64-ucrt-x86_64-mpfr [#####] 100%  
(15/21) reinstalling mingw-w64-ucrt-x86_64-mpc [#####] 100%  
(16/21) reinstalling mingw-w64-ucrt-x86_64-windows-default-manifest [#####] 100%  
(17/21) reinstalling mingw-w64-ucrt-x86_64-winpthreads-git [#####] 100%  
(18/21) reinstalling mingw-w64-ucrt-x86_64-gcc [#####] 100%  
(19/21) reinstalling mintty [#####] 100%  
(20/21) reinstalling msys2-runtime [#####] 100%  
(21/21) reinstalling nano-syntax-highlighting [#####] 100%  
  
=> IMPORTANT!!!  
=> To prevent overwriting your existing configuration, nanorc  
=> was installed to /usr/share/nano-syntax-highlighting/nanorc.sample  
=>  
=> To install you should add the languages you want to your nano configuration file /etc/nanorc or ~/.nanorc  
=> $ cat /usr/share/nano-syntax-highlighting/nanorc.sample | xargs -0 echo >> ~/.nanorc  
  
:: Running post-transaction hooks...  
(1/1) Updating the info directory file...
```

Chạy lệnh `pacman -U *zst`

Bước 8:

```
Tina@DESKTOP-AI94MV7 UCRT64 /d/Study/dsa/SummerTerm/msys
$ g++ --version
g++.exe (Rev2, Built by MSYS2 project) 14.2.0
Copyright (C) 2024 Free Software Foundation, Inc.
This is free software; see the source for copying conditions.  There is NO
warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
```

Chạy g++ --version để hiện phiên bản và thông tin phần mềm