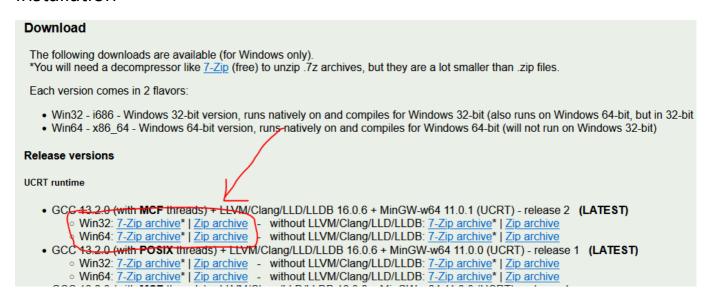
Setting up Environment for C/C++ (Windows)

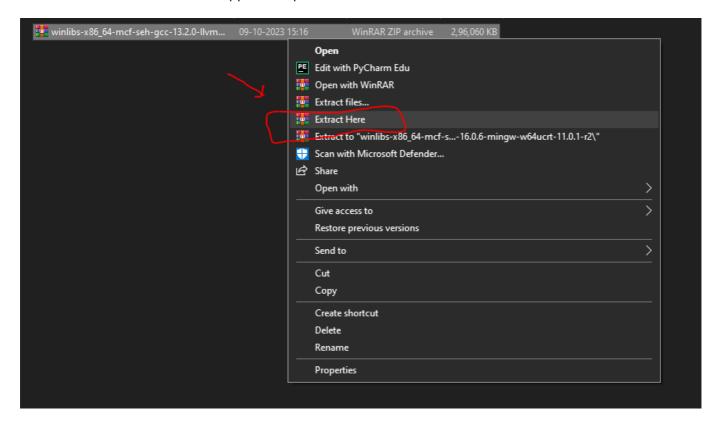
Installation



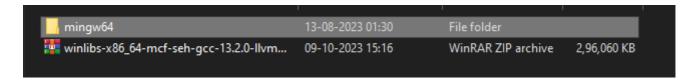
Download the mingw toolchain from here.

Unpacking

Extract the source files from the zipped/compressed files.



Copy the folder named mingw64 or mingw32 depending on your installation.



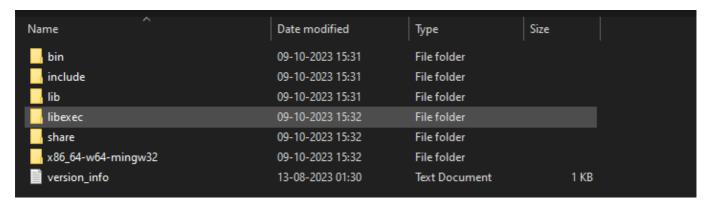
Paste this folder into your user directory which resides in the C: drive.

An example of such a path is C:/Users/<USER_NAME>. Here USER_NAME is the name of the user.

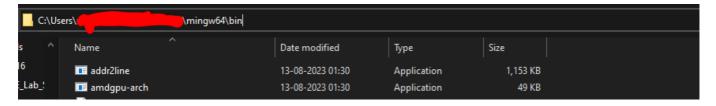
Getting PATH

Once you finish pasting the folder into your user directory navigate inside the folder (mingw64 or mingw32).

You should be able to see the following directory structure:

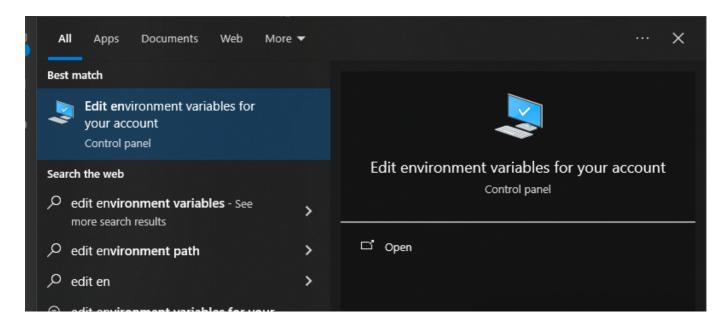


Now navigate to the bin folder and copy the path so final path would be of the following format C:/Users/<USER_NAME>/[mingw64 or mingw32]/bin.

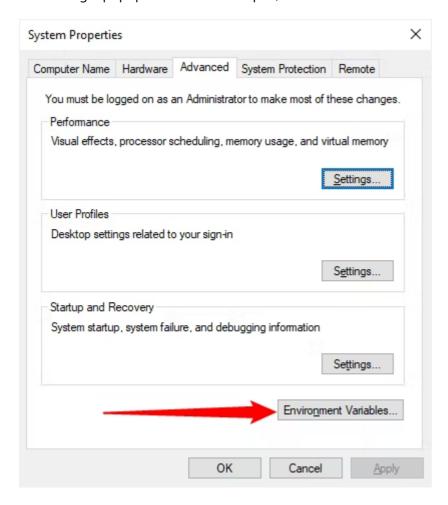


Adding to System Path

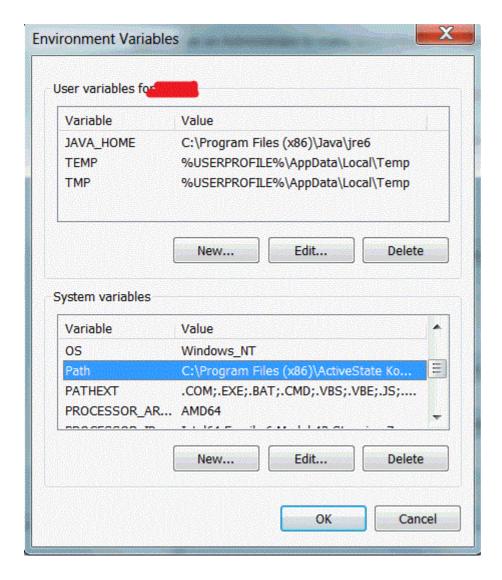
Navigate to search bar in the taskbar and type along the lines of edit environment variables and you should see the following setting:



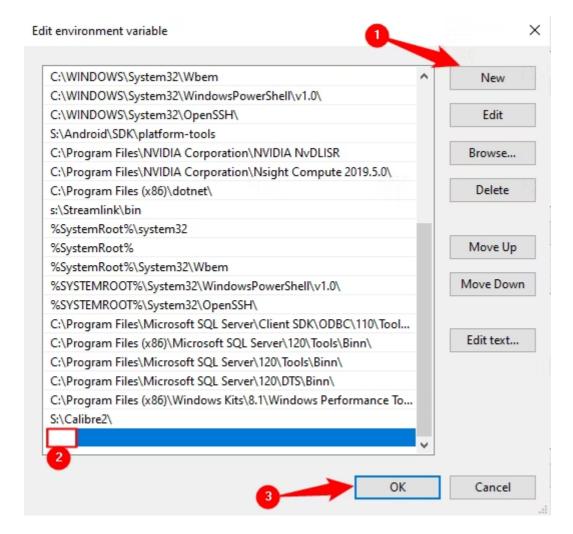
On clicking a popup window should open, click the button labeled Environment Variables.



Now on the bottom half of the window you should see a section named System Variables that contains a list of entries. Double click on the entry named PATH.



You should now be able to add the path copied before as a new entry.



Once the path is added save all your changes and we are done!

Verifying

Open a terminal and enter the following command gcc --version you should be able to see the following output.

Running a Programme Barebones

Here is a simple C program that prints Hello, World! to the terminal.

```
#include <stdio.h>
int main() {
    printf("Hello, World!");
    return 0;
}
```

Now create a main.c file and paste the above into it. Now open a terminal in same directory as the main.c file.

Note

You can use cd to navigate between folders.

Once you are sure you are in the same directory run the following command gcc main.c && .\a.exe. Your terminal should display the following:

```
C:\Users\student.MIT-ICT-LAB5-01>mingw64\bin\gcc main.c && .\a.exe
Hello, World!
C:\Users\student.MIT-ICT-LAB5-01>
```

Note To compile C++ files you would use the following command g++ main.c && .\a.exe.