

Chapter 1: Installation of CodeBlocks IDE 20.03 with MinGW Setup

For any assistance, please check out the video by **LearningLad** youtube channel on

[How to Install CodeBlocks \(IDE 20.03 \) with MinGW for C and C++ Programming on Windows 10](#)

STEP 1: Installation

It is highly recommended to go with the **default installation** of the **mingw setup**.

For Latest Updates, follow official website: <https://www.codeblocks.org/downloads/binaries/>

For Windows 32 bit users:

https://drive.google.com/file/d/1_eHTnrOXr2ckvJ7Y4avrYi9Ge4-IVzyQ/view?usp=sharing

For Windows 64 bit users:

<https://drive.google.com/file/d/1xAcbEATgingMja94OuzVVvbNCgCyvhxW/view?usp=sharing>

For other platform users/versions: <https://www.codeblocks.org/downloads/binaries/>

STEP 2: Adding Path

Add the path to the **MinGW folder** in Code Blocks, '**C:\Program Files\CodeBlocks\MinGW\bin**' (default path or the path you mentioned while installation) in the **Edit System Environment Variables** in **System Settings**.

STEP 3: Verify

Open CMD, and enter the command, "**gcc -- version**", if you see the version being specified, you're good to go.

Chapter 2: Installation of SQLite3

STEP 1: Copying Folder

Copy the **sqlite3_folder** from the **Student Grade Management System** Project Folder to C Drive.

STEP 2: Adding Path

Add the path to the **sqlite_tools** folder in C Drive, '**C:\sqlite3_folder\sqlite3_tools**' in the **Edit System Environment Variables** in **System Settings**.

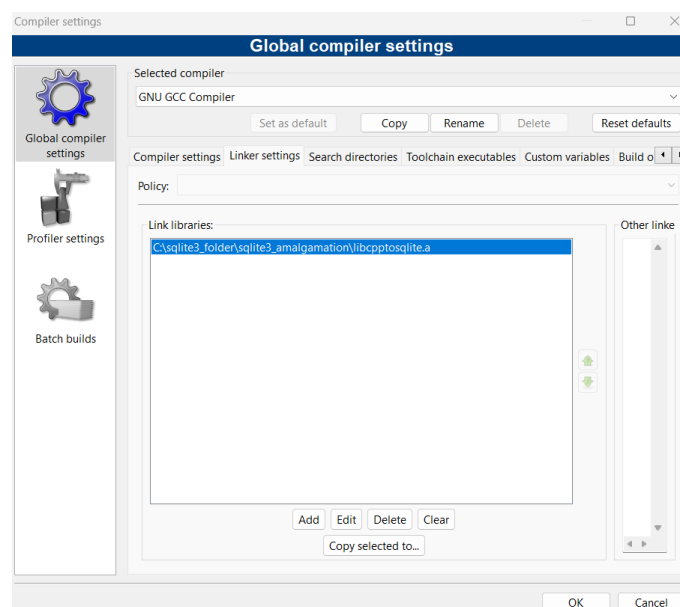
STEP 3: Verify

Open CMD, and enter the command, "**sqlite3 --version**", if you see the version being specified, you're good to go.

Chapter 3: Connecting SQLite3 to CodeBlocks IDE

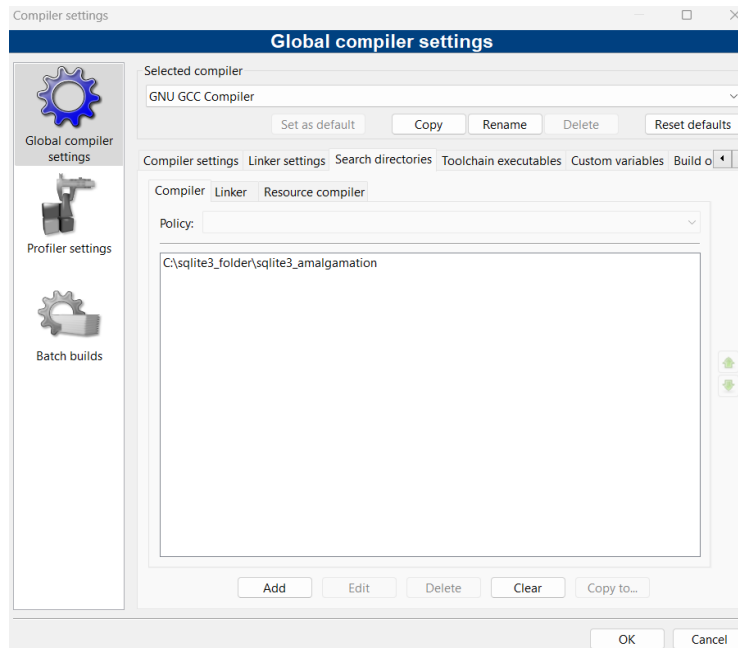
STEP 1: Adding .a file to CodeBlocks Linker

Open CodeBlocks, click on Settings, and select **Compiler**. Under the '**Linker Settings**' tab, add the following path '**C:\sqlite3_folder\sqlite3_amalgamation\libcpptsqlite.a**' and click on **OK**.

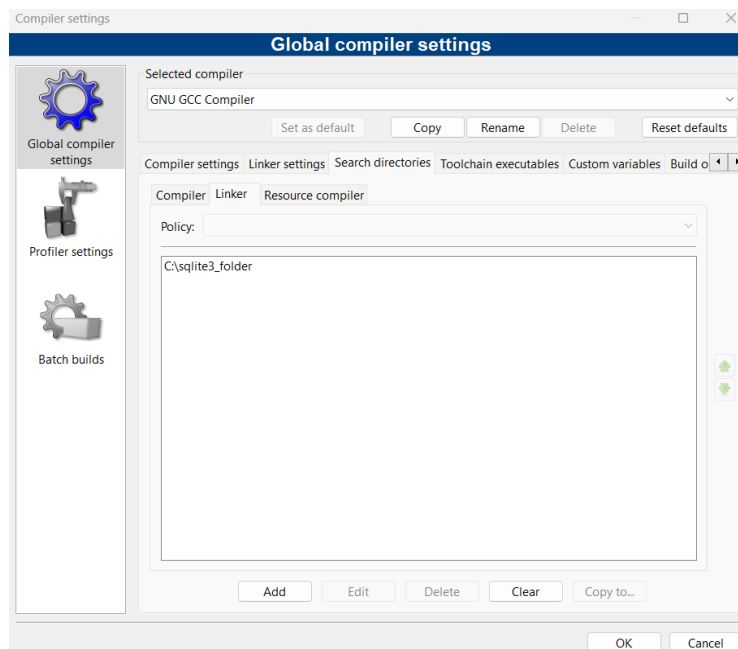


STEP 2: Adding sqlite3_folder paths to CodeBlocks Search Directories

Open CodeBlocks, click on Settings, and select **Compiler**. Under the '**Search Directories**' tab, select the '**Compiler**' tab and add the following path '**C:\sqlite3_folder\sqlite3_amalgamation**' and click on **OK**.



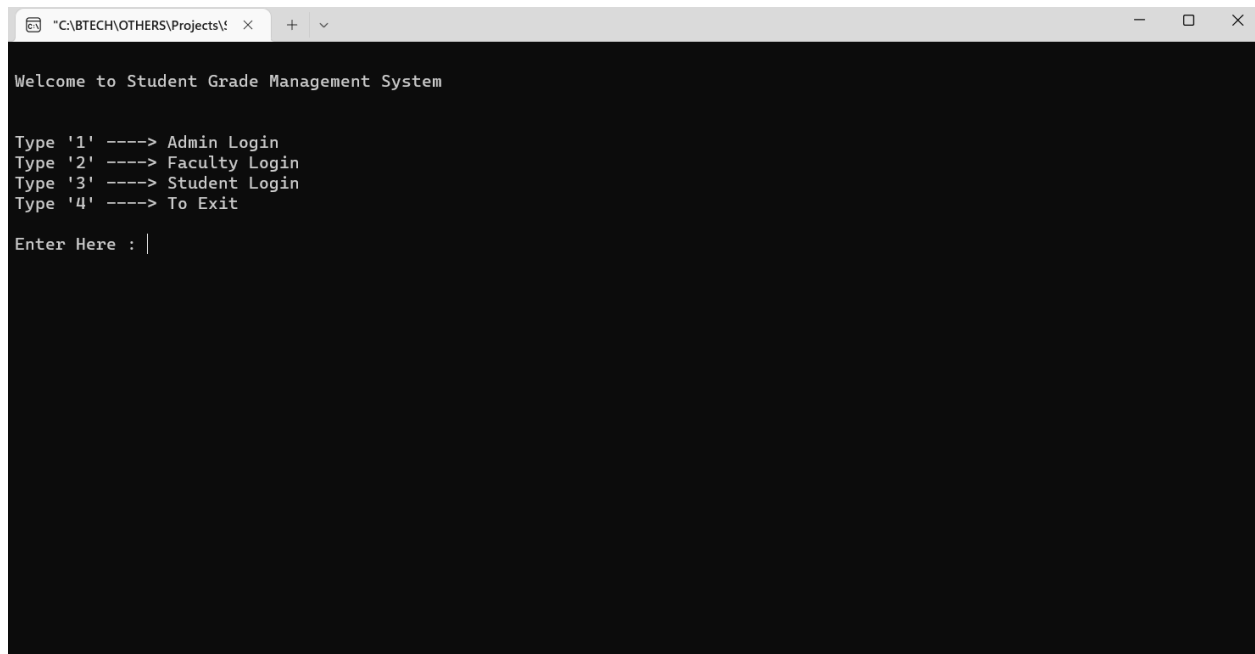
Open CodeBlocks, click on Settings, and select **Compiler**. Under the '**Search Directories**' tab, select the '**Linker**' tab and add the following path '**C:\sqlite3_folder**' and click on **OK**.



Chapter 4: Executing the Program

Open **Student Grade Management System** Project Folder, right click on “**Student Grade Management System (Module 1) v1.cpp**” and open with “**CodeBlocks IDE**”.

Click on Build, and select **Build and Run (F9)**, if you see the following output, you’re good to go.

A screenshot of the CodeBlocks IDE terminal window. The window title bar shows the file path "C:\BTECH\OTHERS\Projects\..." and standard window controls. The terminal output is as follows:

```
Welcome to Student Grade Management System

Type '1' ----> Admin Login
Type '2' ----> Faculty Login
Type '3' ----> Student Login
Type '4' ----> To Exit

Enter Here : |
```

By following the above instructions, we were successfully able to connect our CodeBlocks IDE with the SQLite3 database and were successfully able to run our Project Source Code.

References followed:

1. Installation of Code Blocks:

Video by **LearningLad** Youtube Channel:

[How to Install CodeBlocks \(IDE 20.03 \) with MinGW for C and C++ Programming on Windows 10](#)

2. Installation of SQLite3 and connecting it to CodeBlocks:

Video by **Channa Bou** Youtube Channel: [01 Config SQLite db and CodeBlock](#)

Online Reference for SQLite3 by **Tutorialspoint**: [SQLite - C/C++](#)