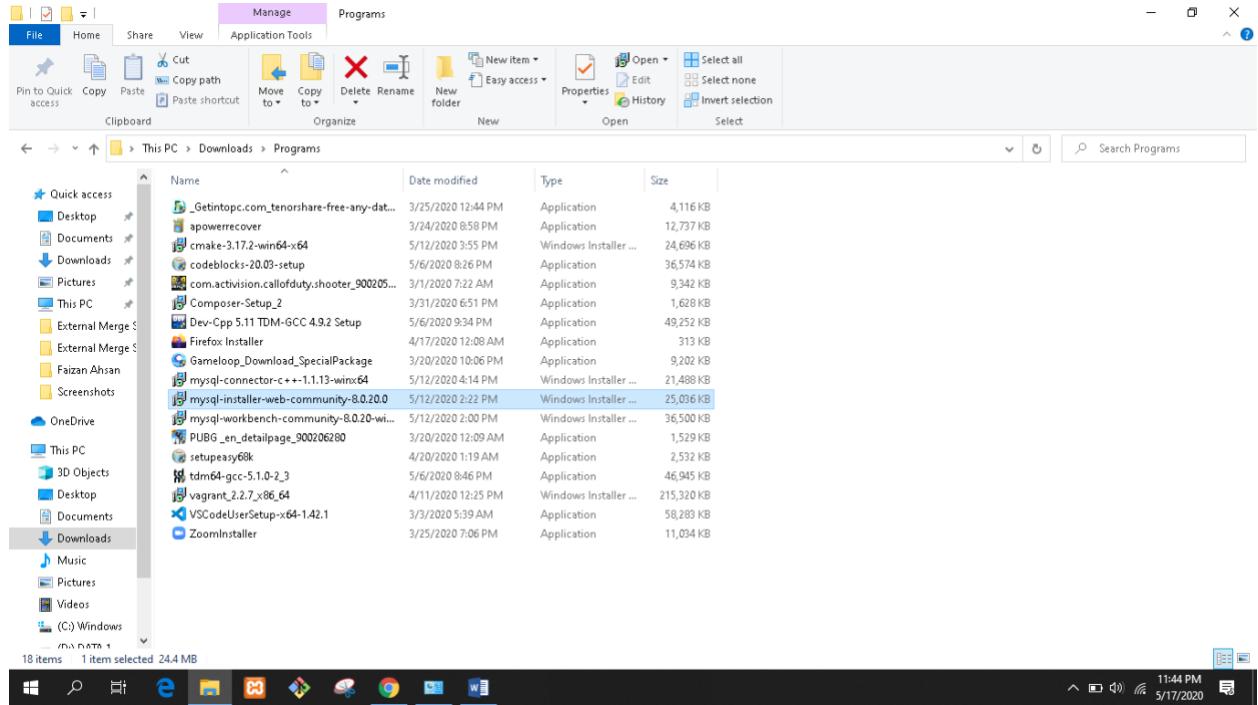


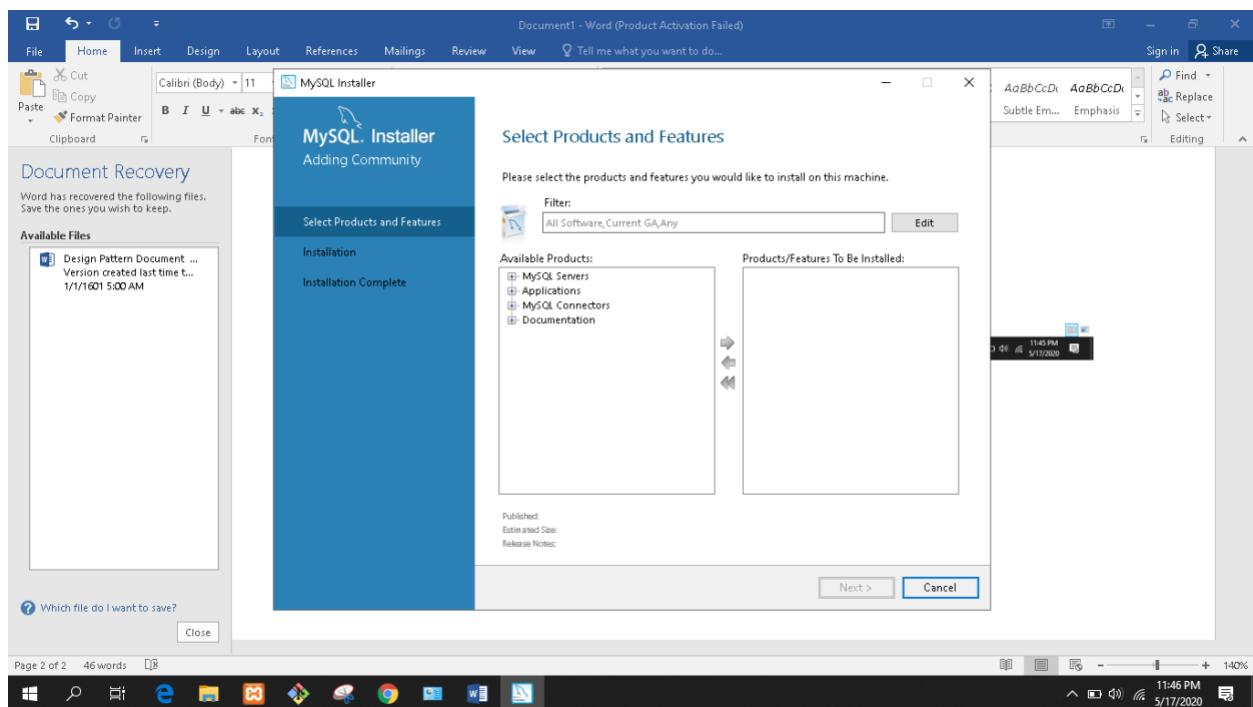
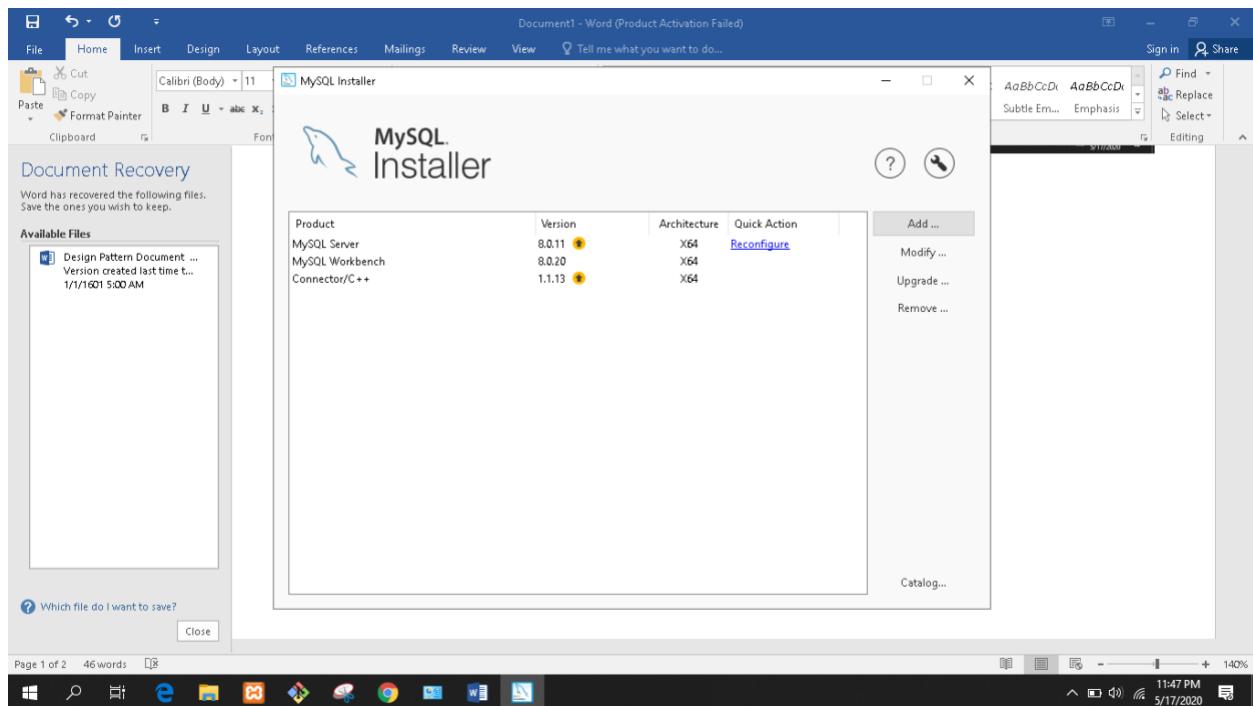
It's a Window Console base program

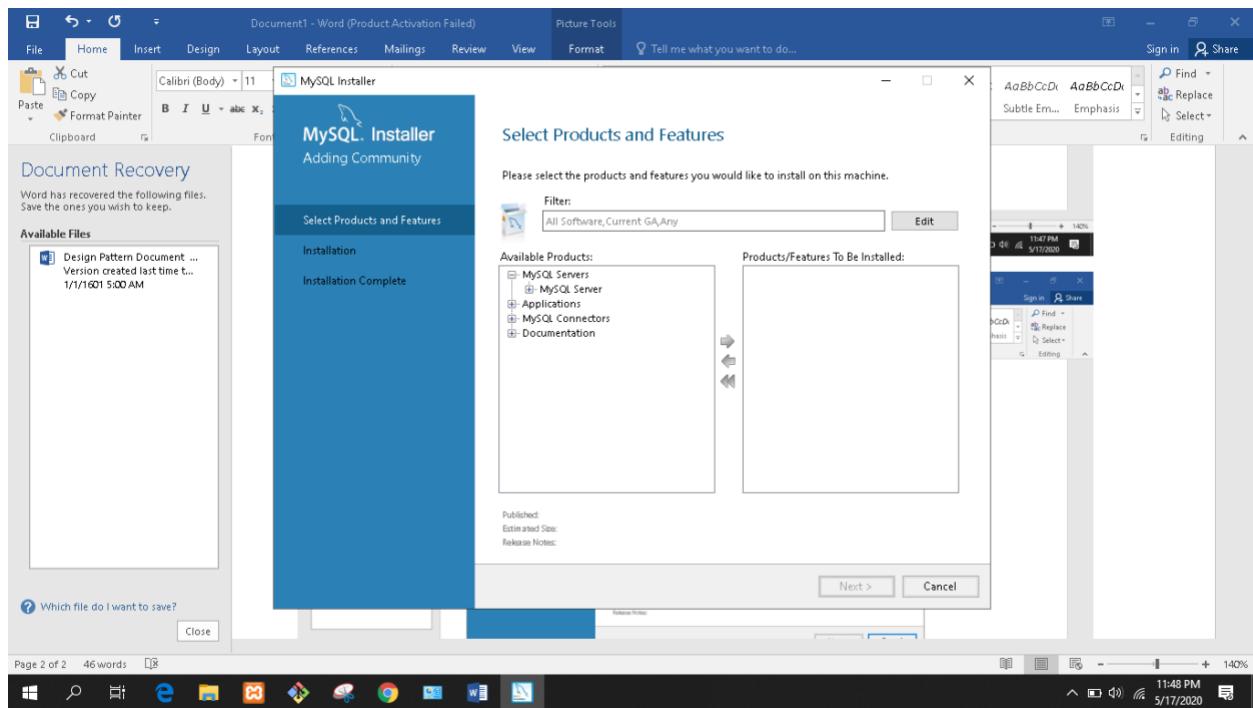
1. Firstly, install Visual Studio 19 installer
 2. Link for download <https://visualstudio.microsoft.com/downloads/>
 3. Install community Free Download
 4. Now run the installer and install c++.

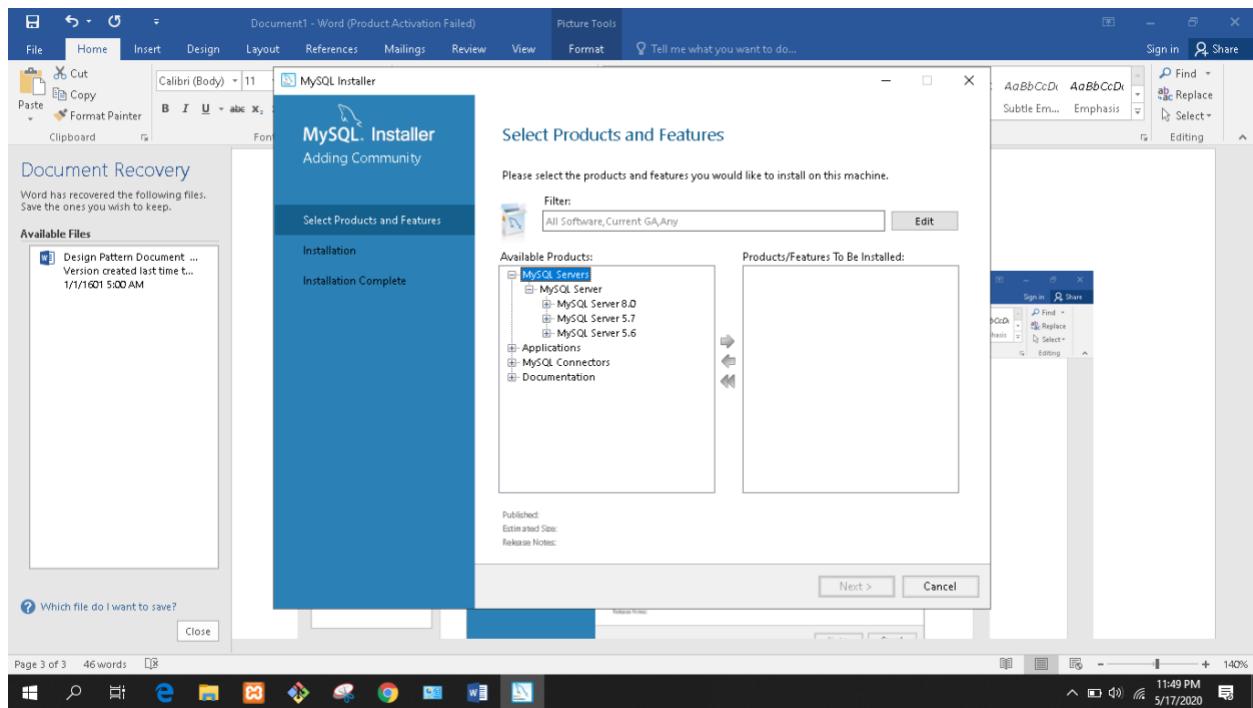
Now install MySQL Server and MySQL Connector/C++

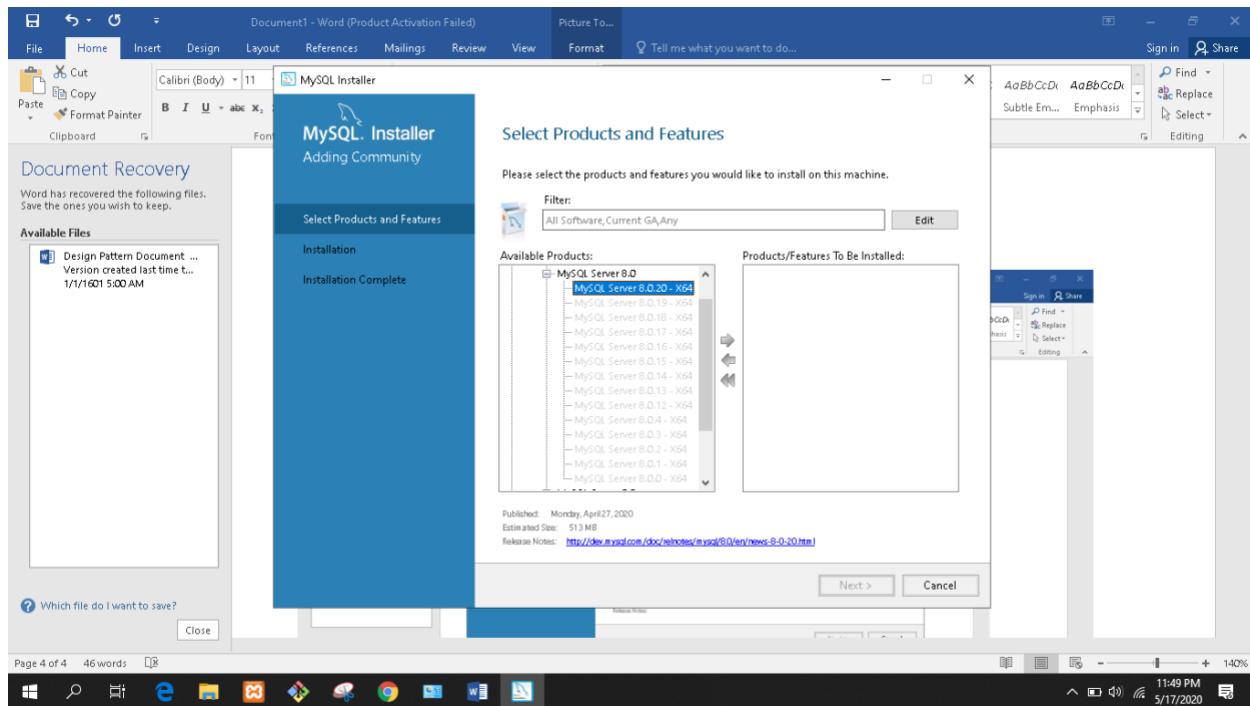
1. Link for download <https://dev.mysql.com/downloads/mysql/>
 2. Install it and Run the MySQL Installer MSI.



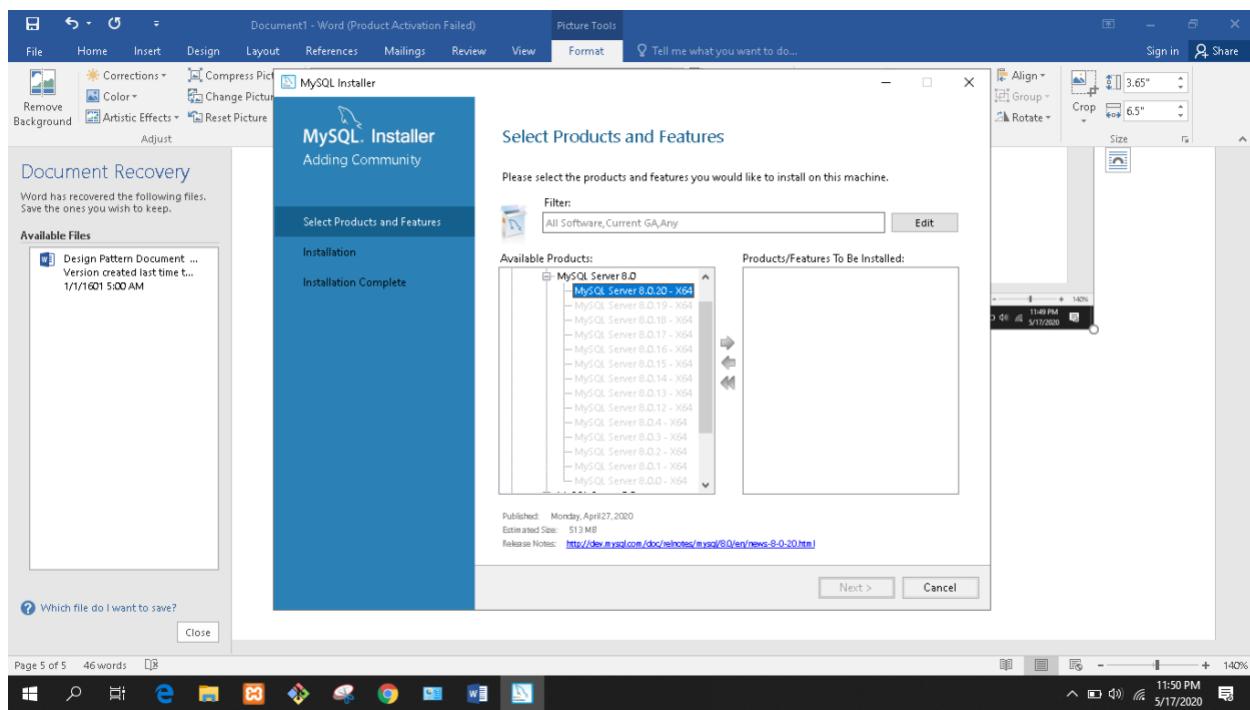


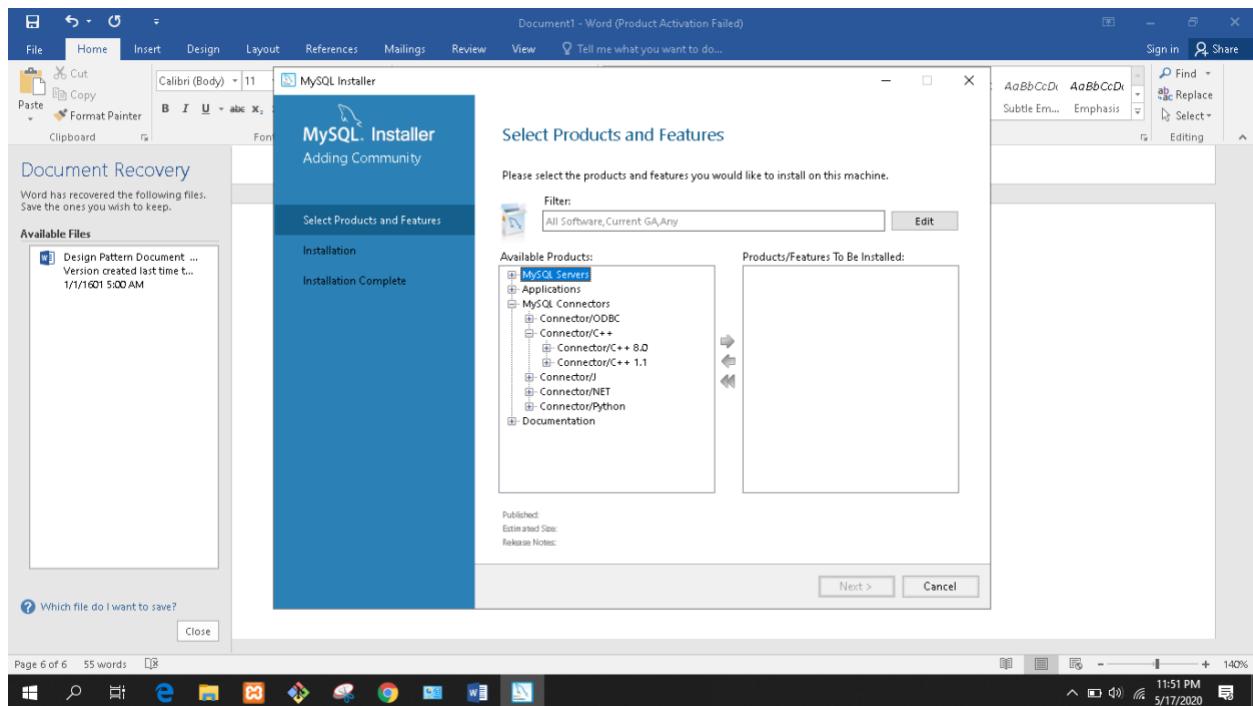




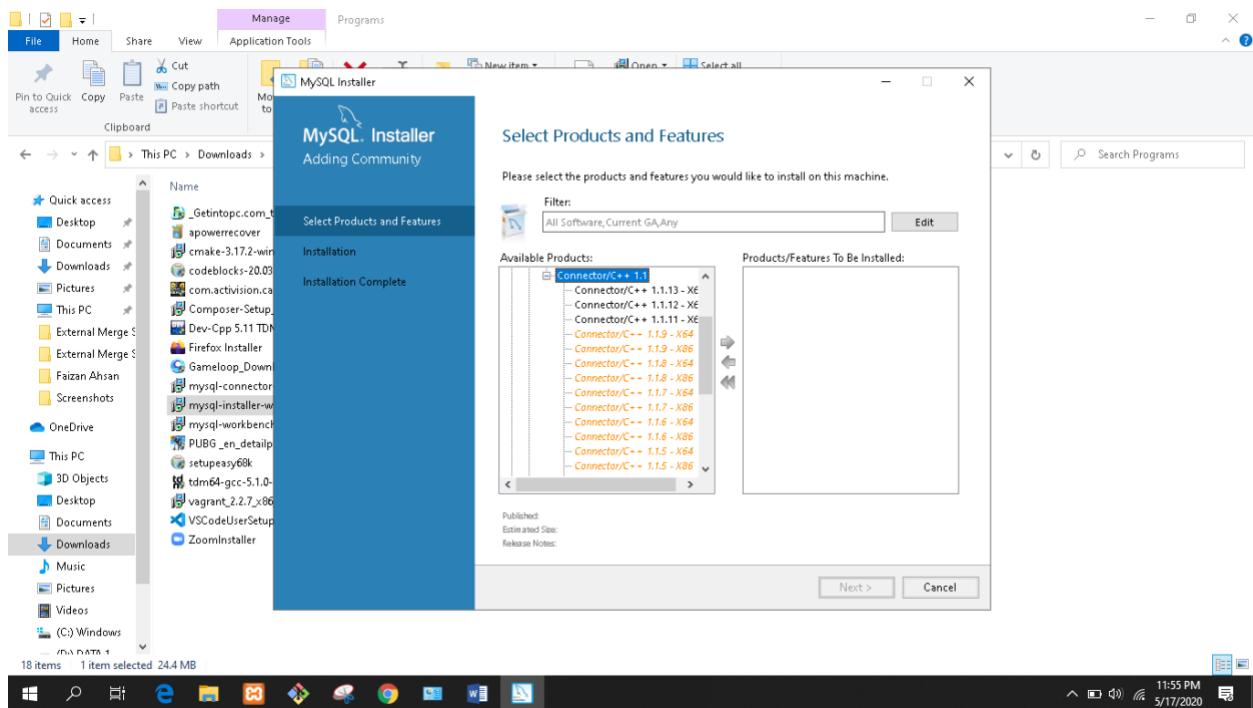


Click to add arrow and add MySQL Server 8.0.20.

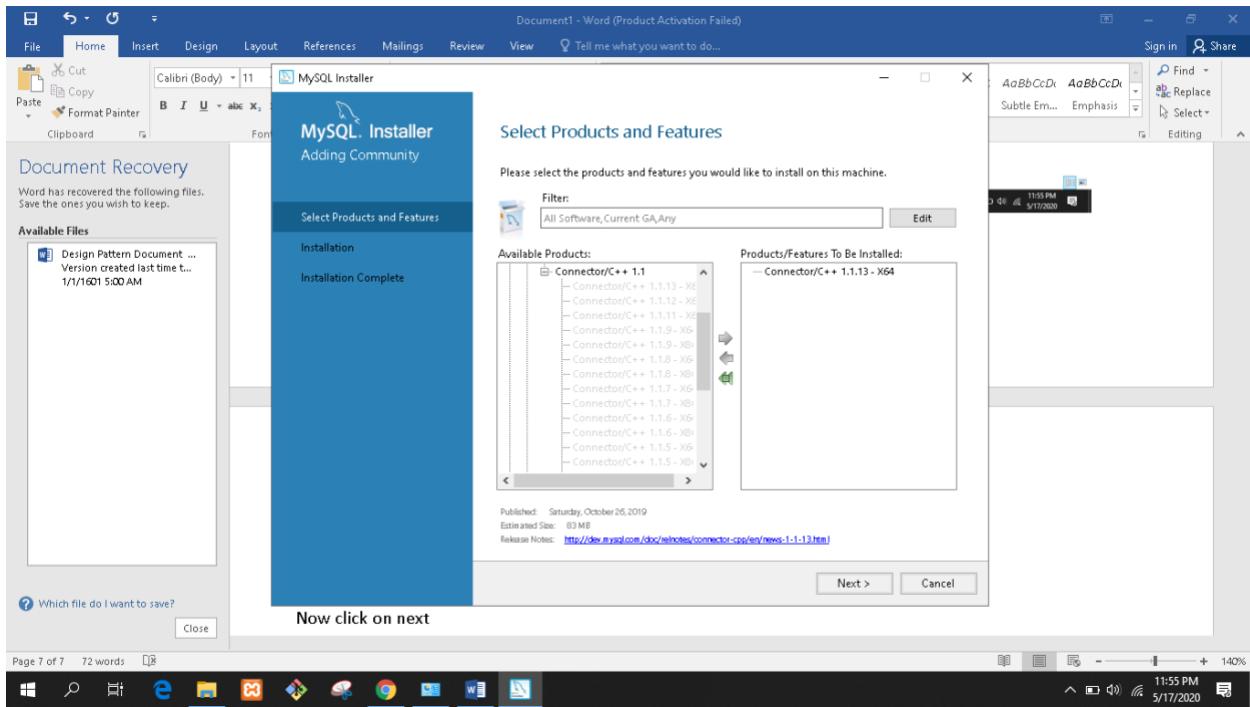




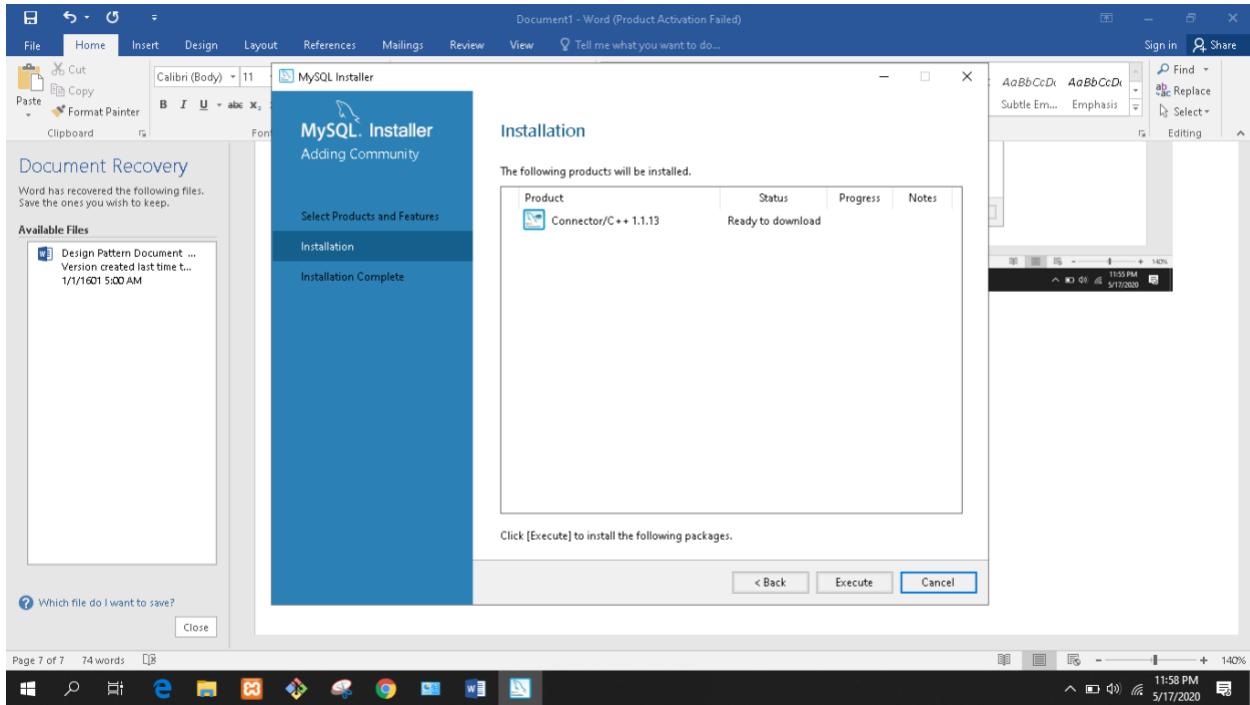
Click to Connector/C++ 1.1 and click on Connector/C++ 1.1.13 and add it also.



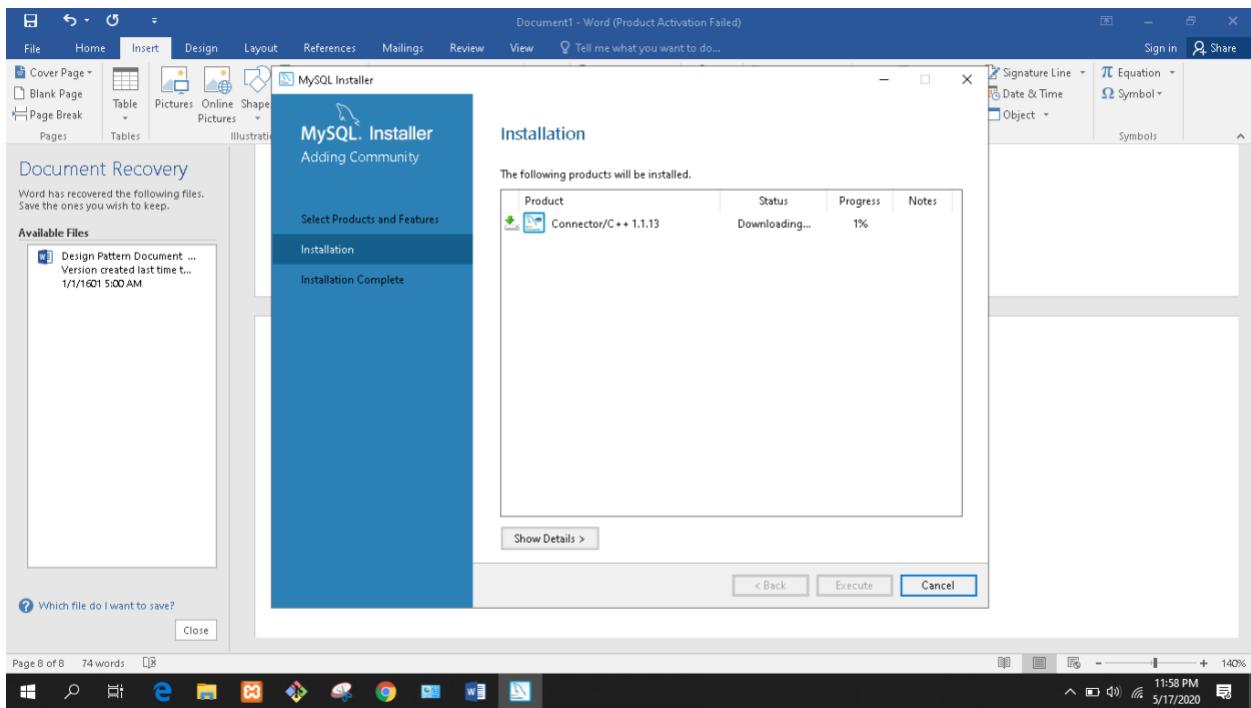
Now click on next



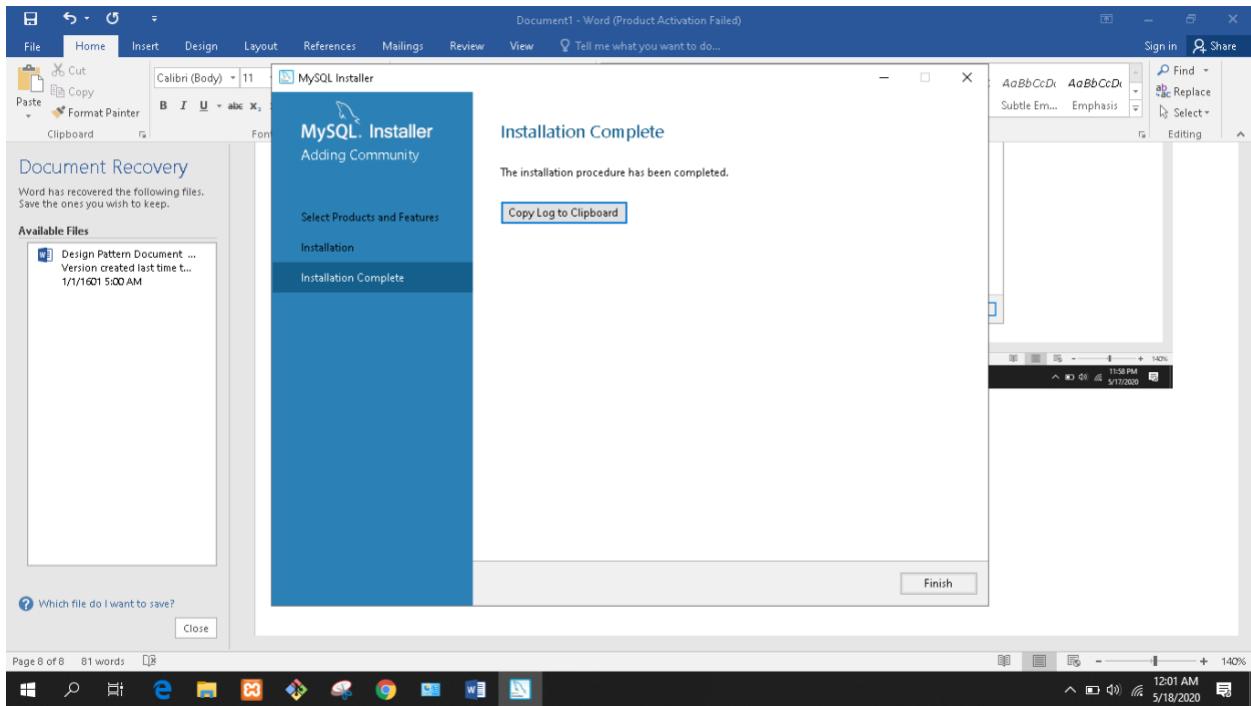
Now Execute



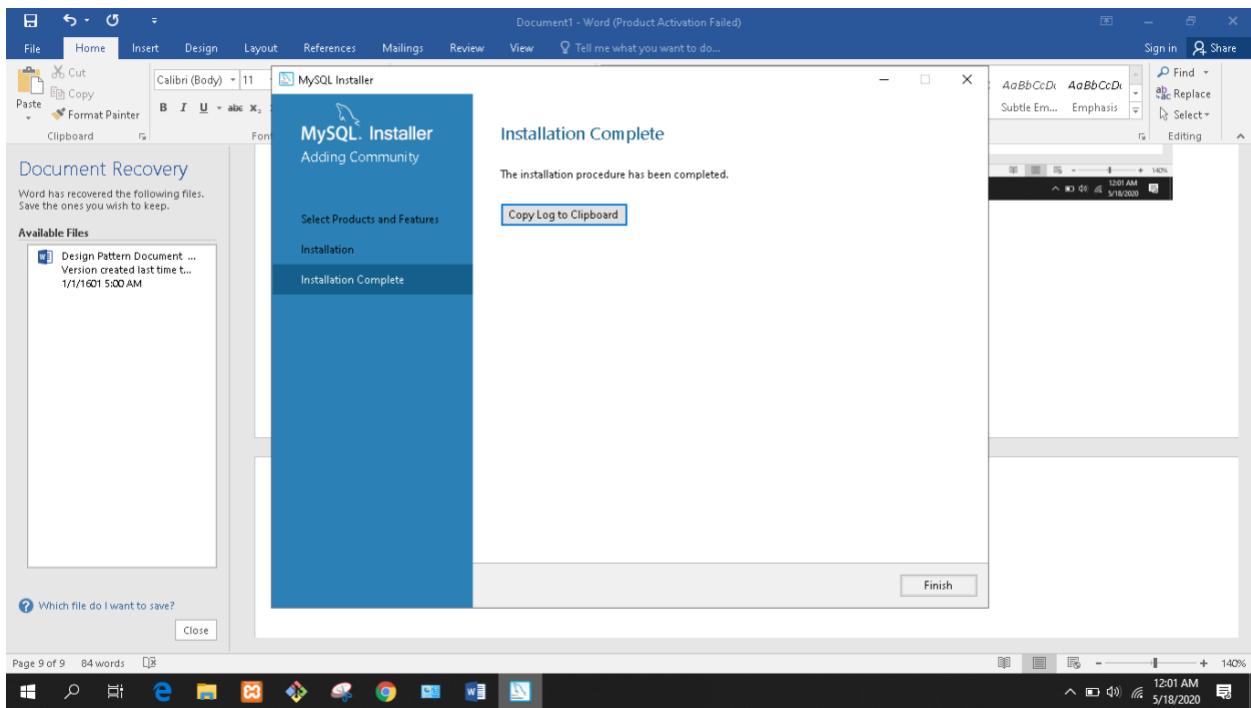
Now it will download.



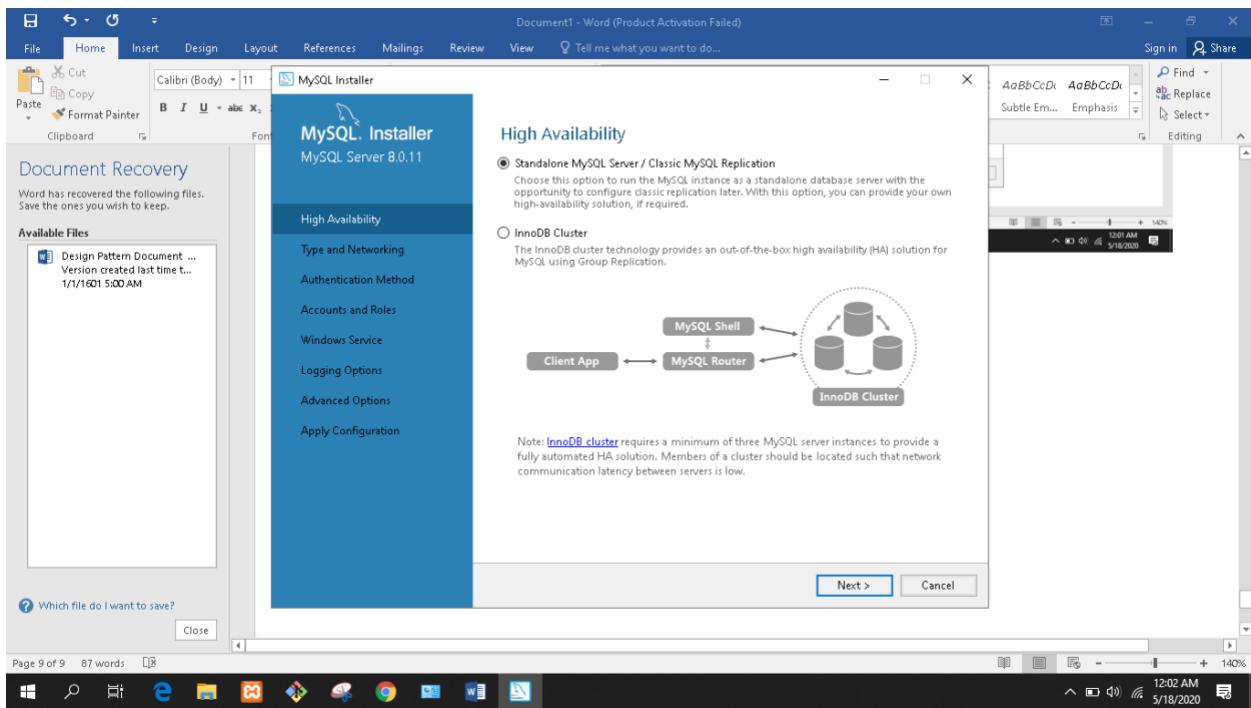
Now click next.



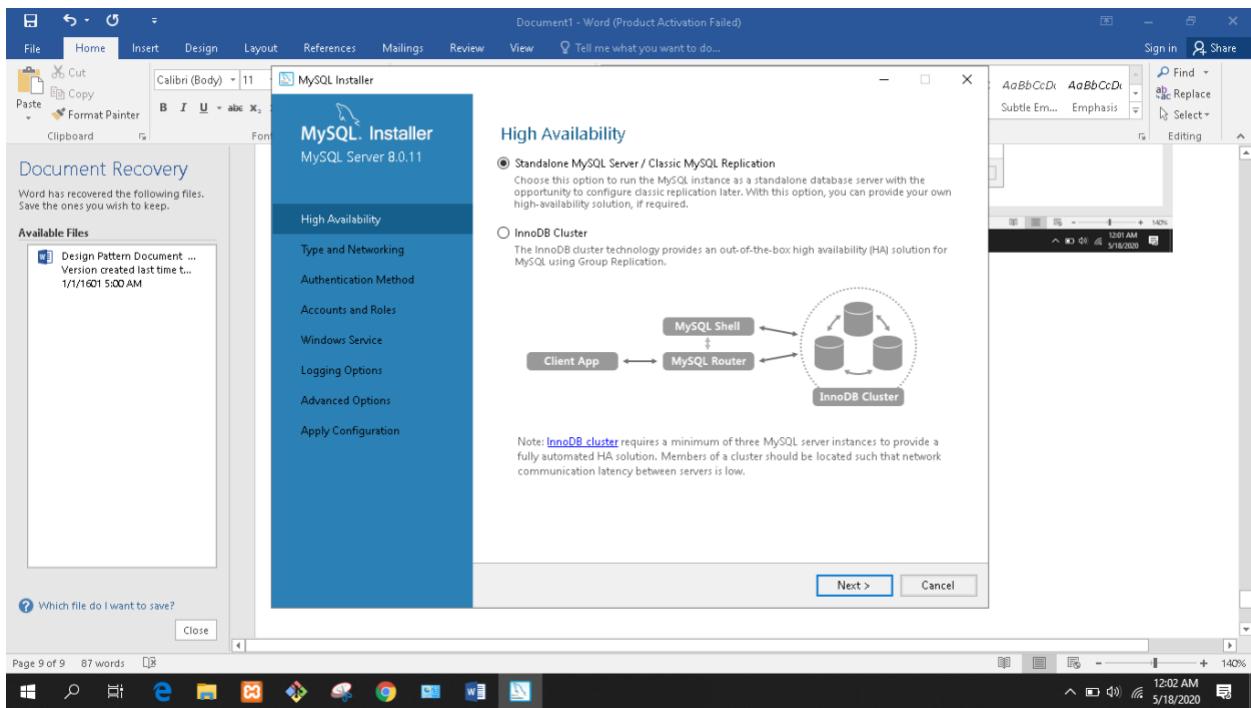
Now Click Finish.



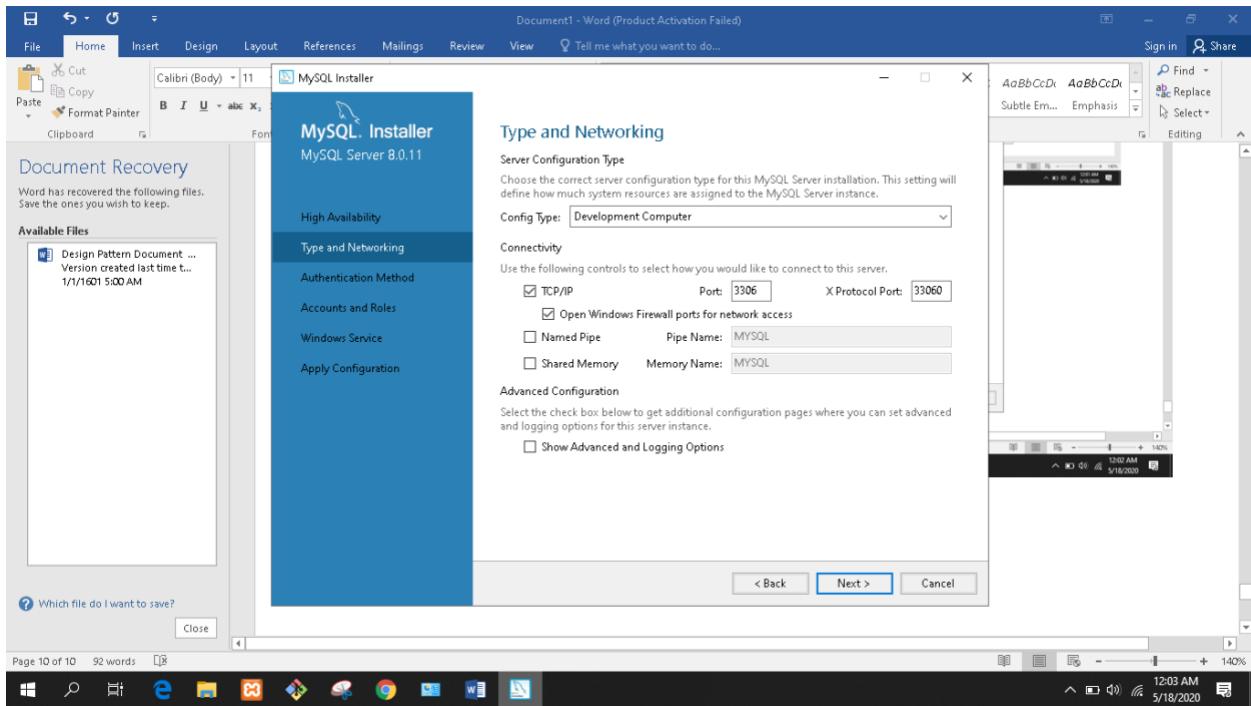
Server will Configure



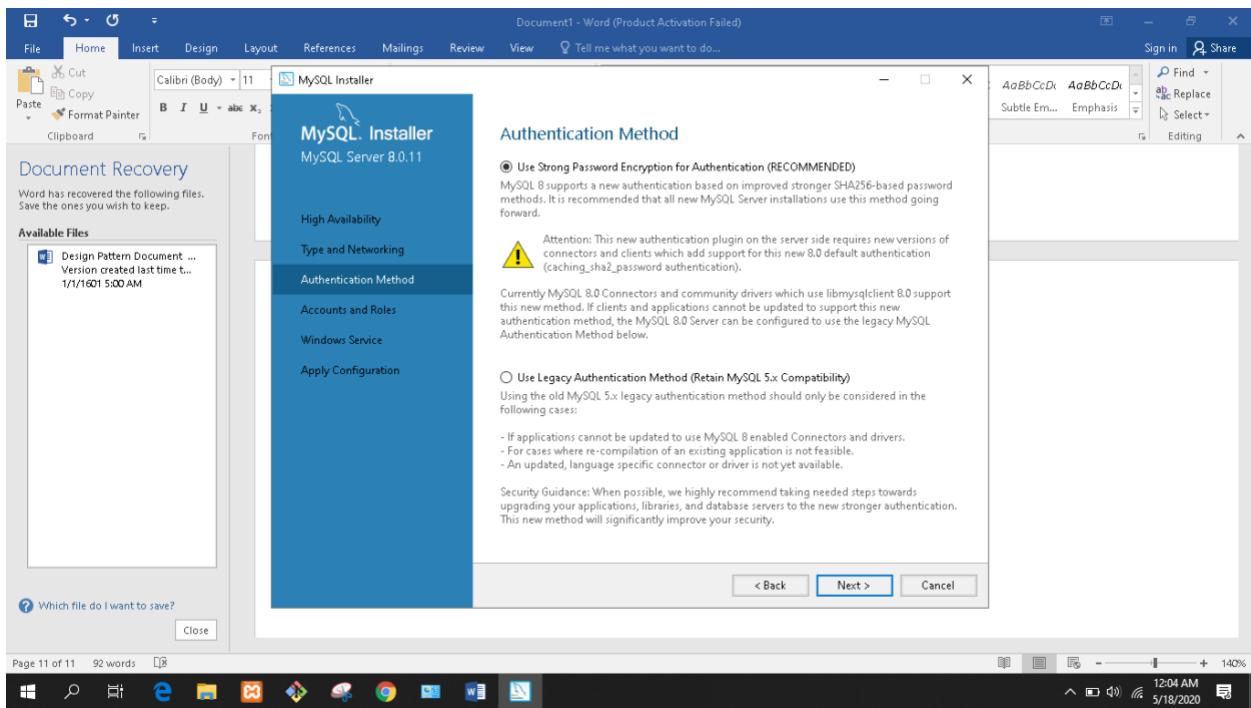
Click next then.



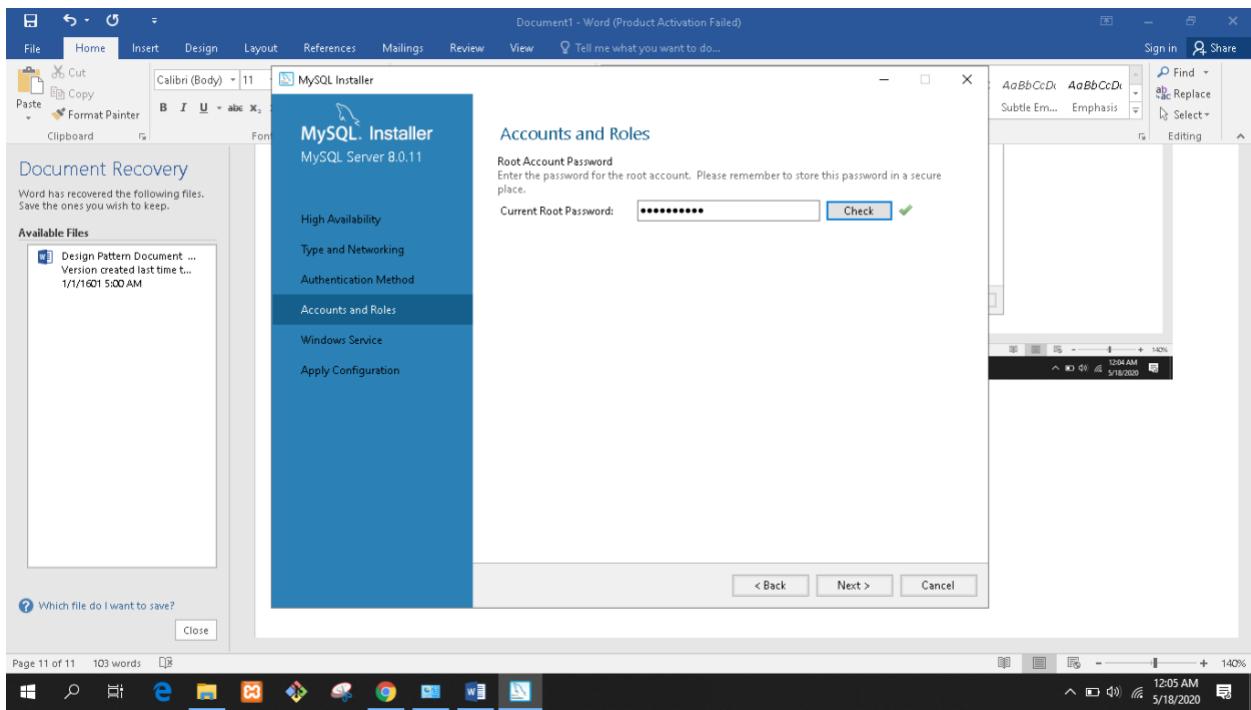
Click next



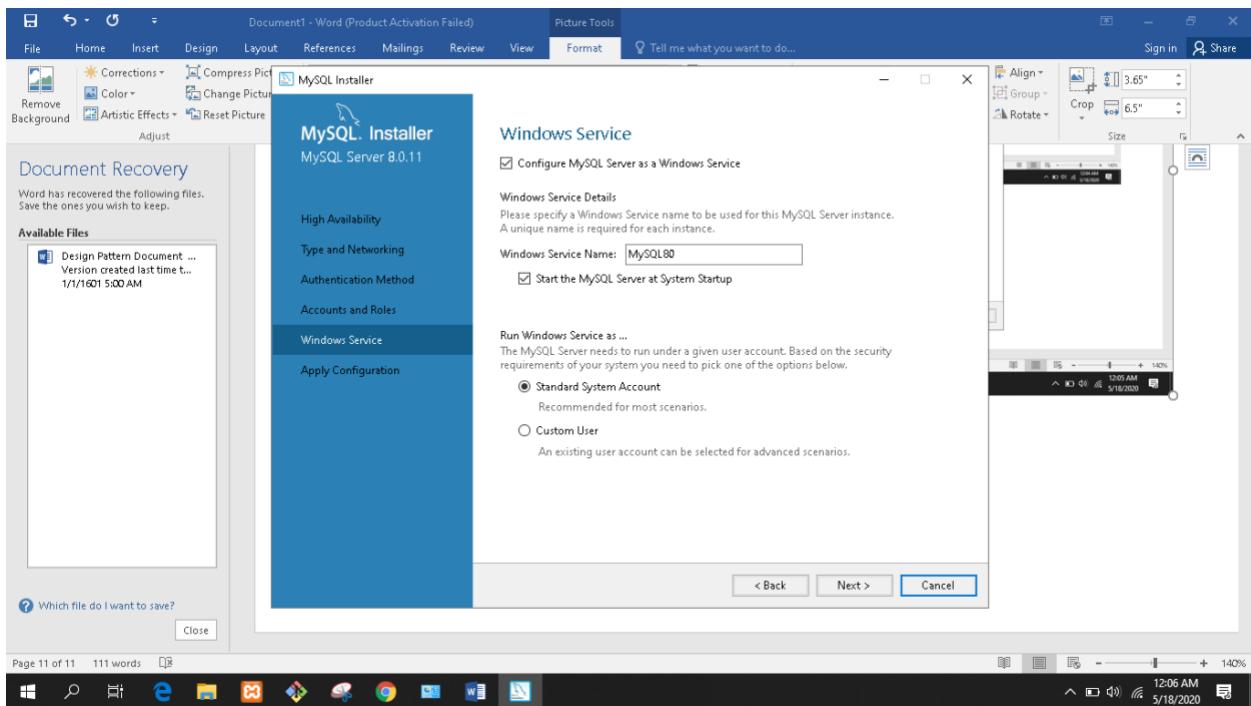
Click next and add password for root account for your server.



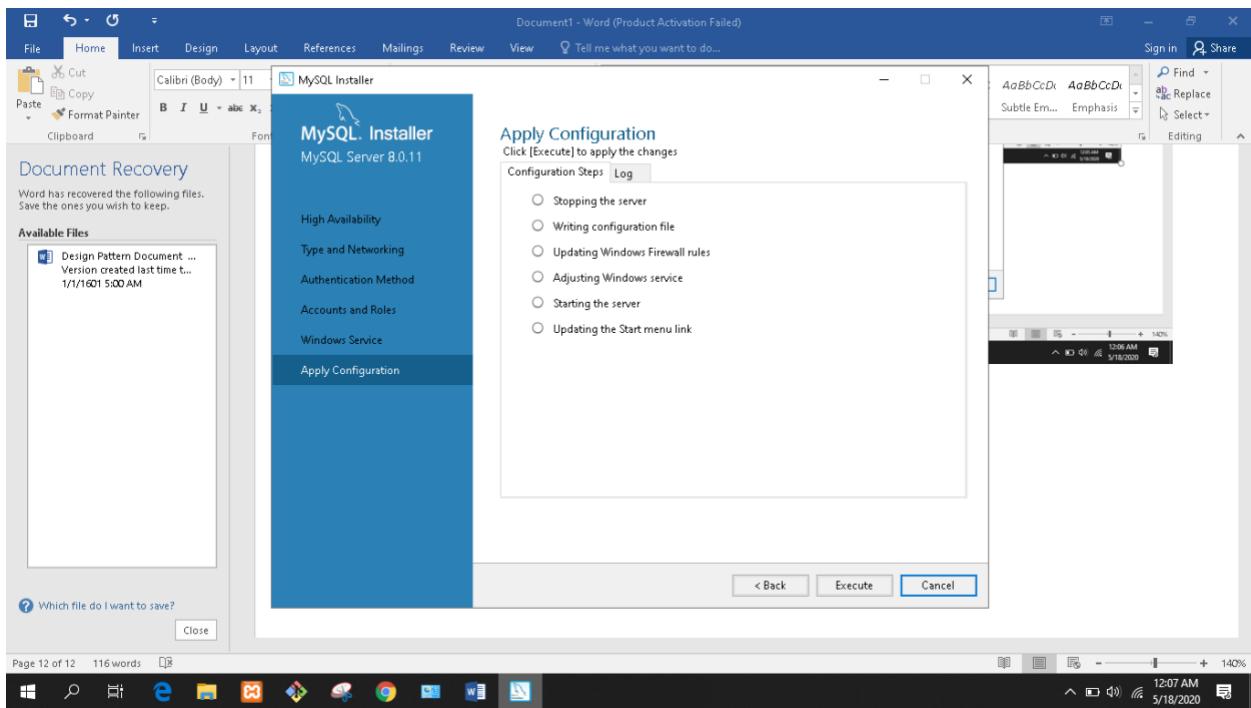
Enter password and re-type it and click next.



Click next.

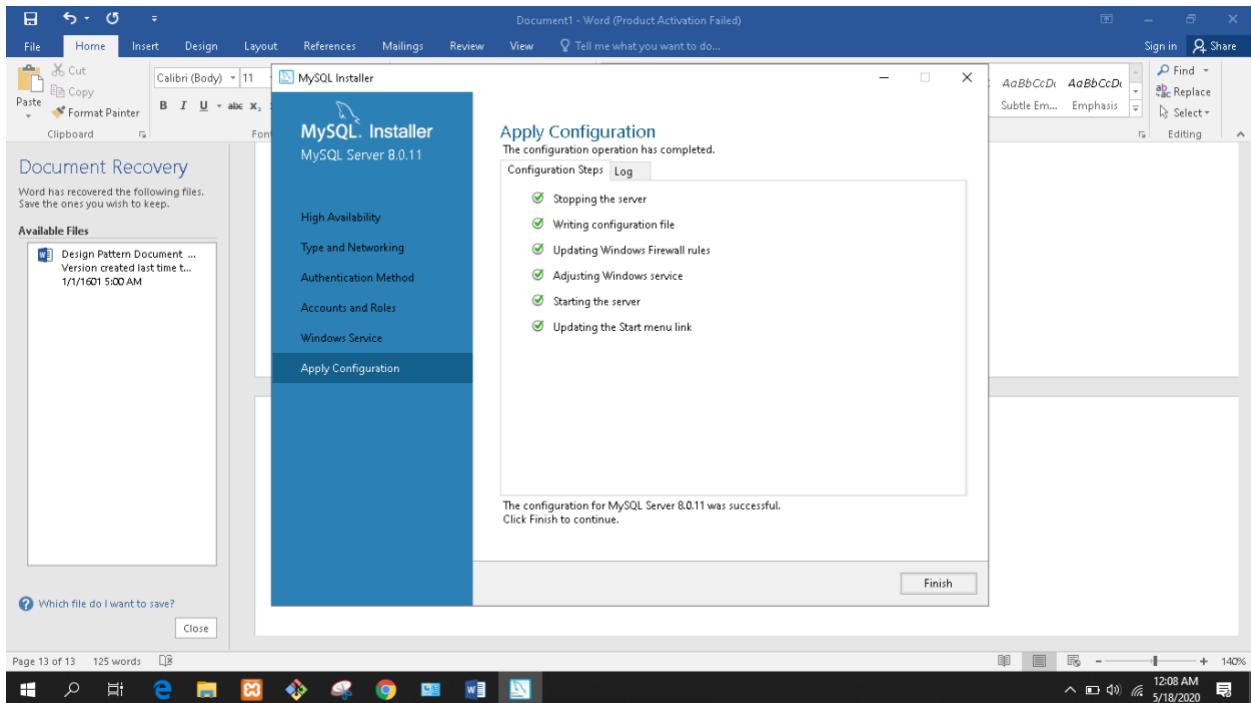


Then execute it



It will execute and configure the server on windows.

And click Finish.



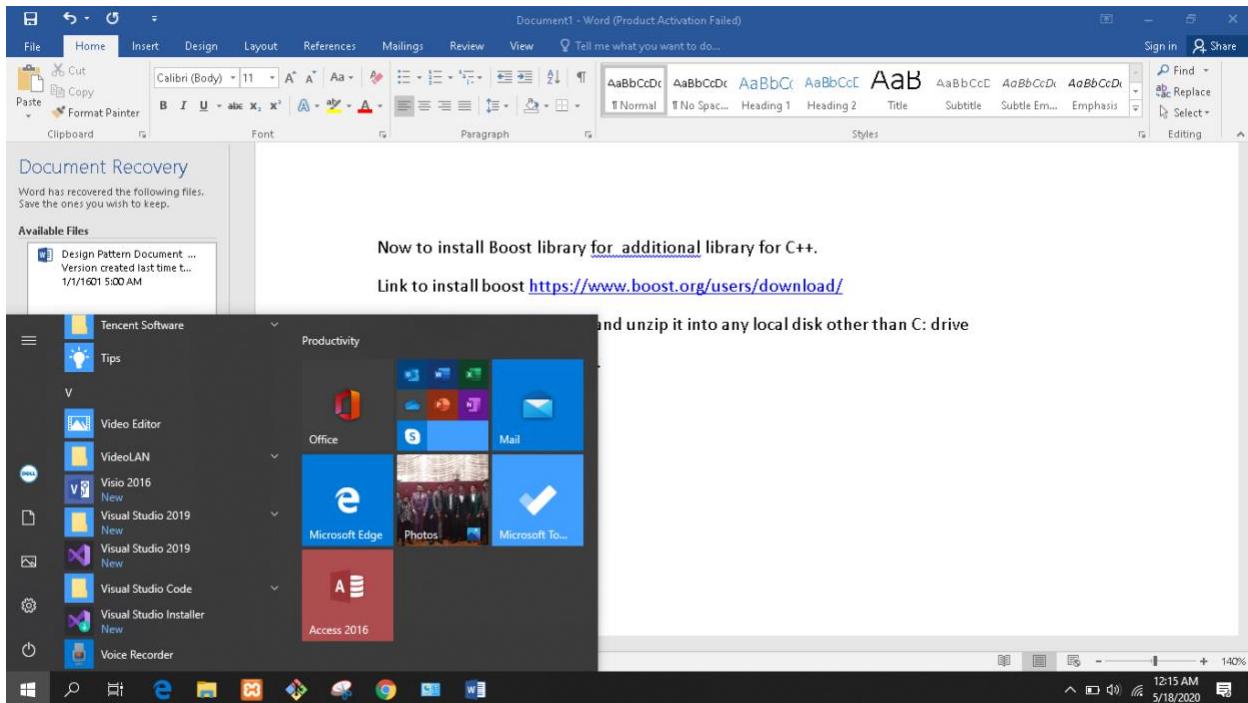
This will install Server and Connector for c++

Now to install Boost library for additional library for C++.

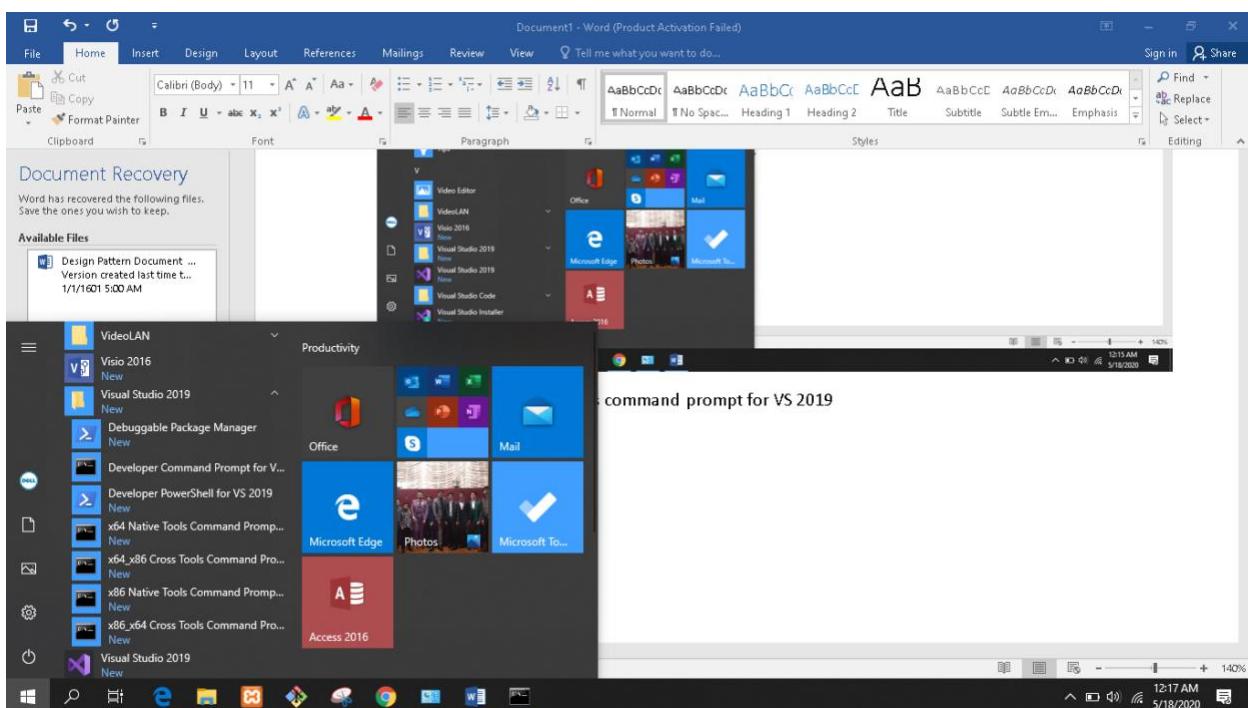
Link to install boost <https://www.boost.org/users/download/>

Download boost_1_73_0.7z and unzip it into any local disk other than C: drive

Go to start menu in windows and search for V and search for Visual Studio 2019.

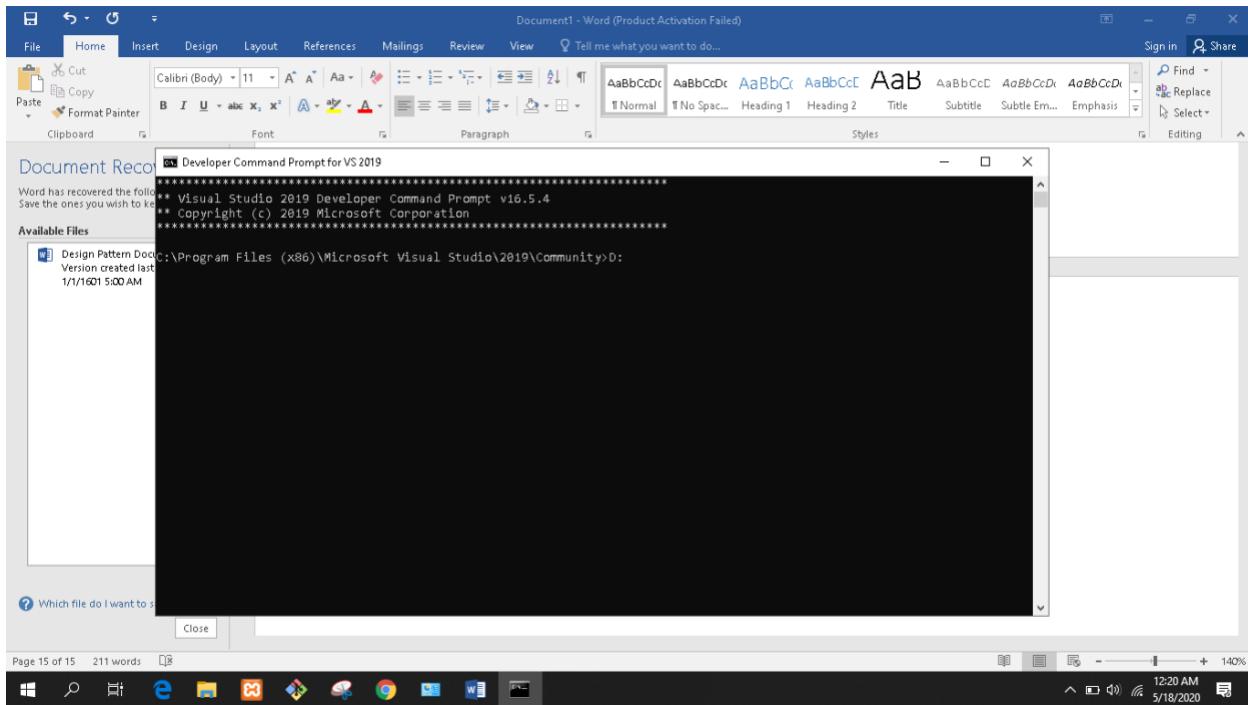


Expand it and run Developers command prompt for VS 2019.

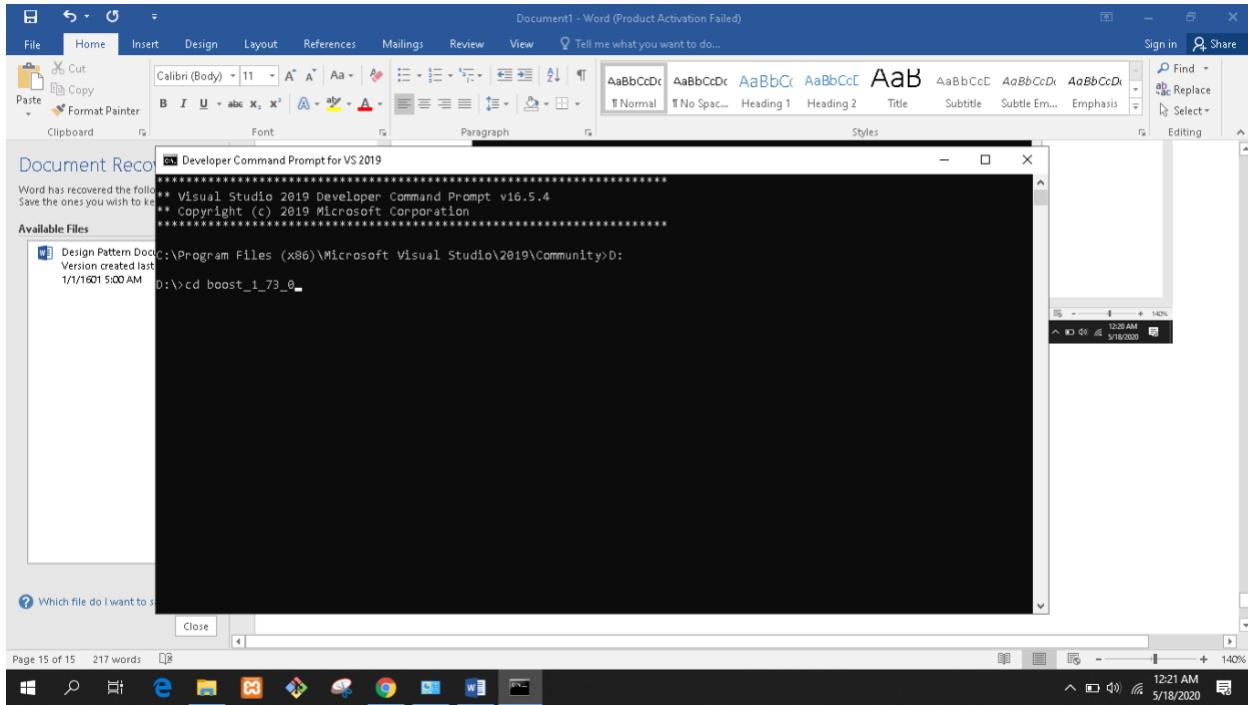


Now command prompt will be opened Now change directory where Boost is installed

Like D: so type on command prompt D:

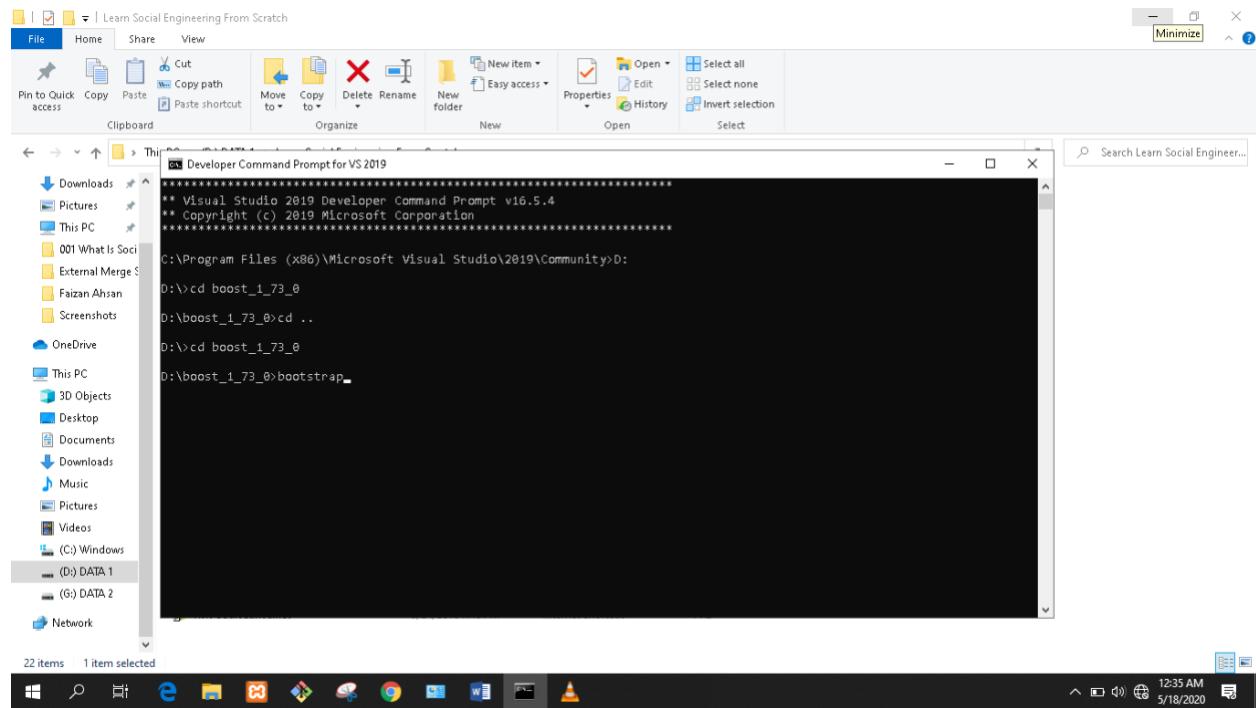


Press Enter and type cd boost_1_73_0

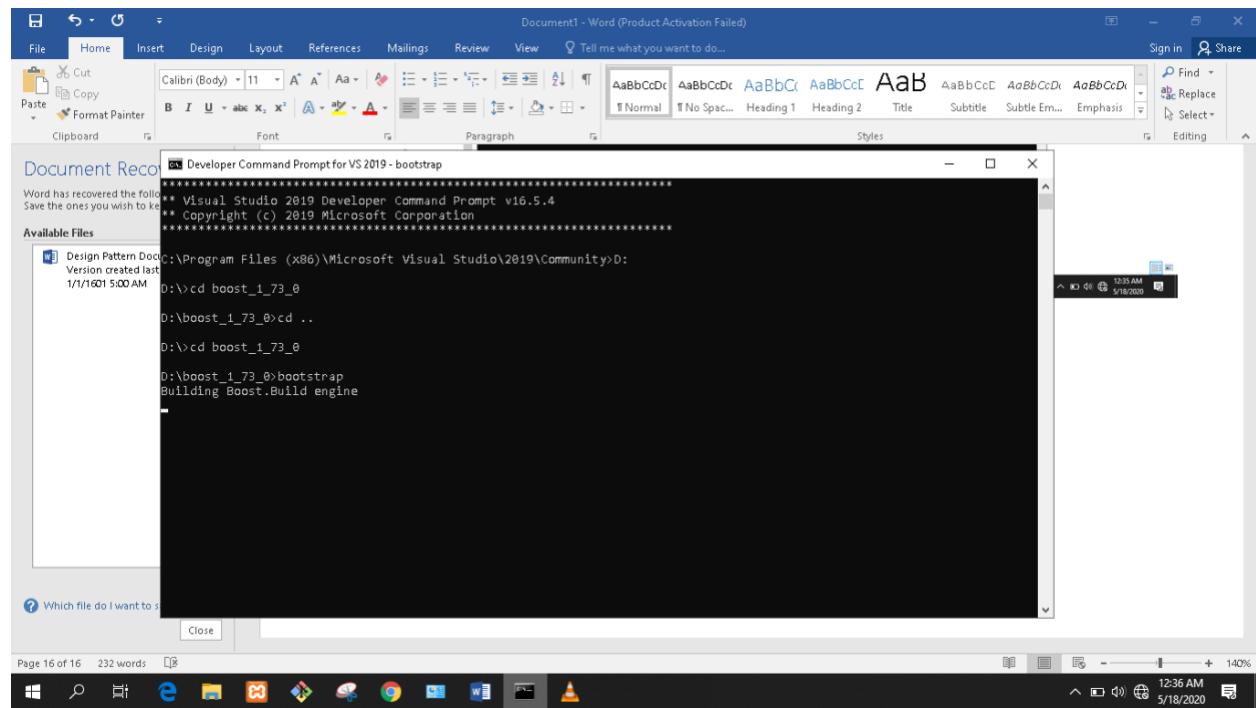


And then type enter

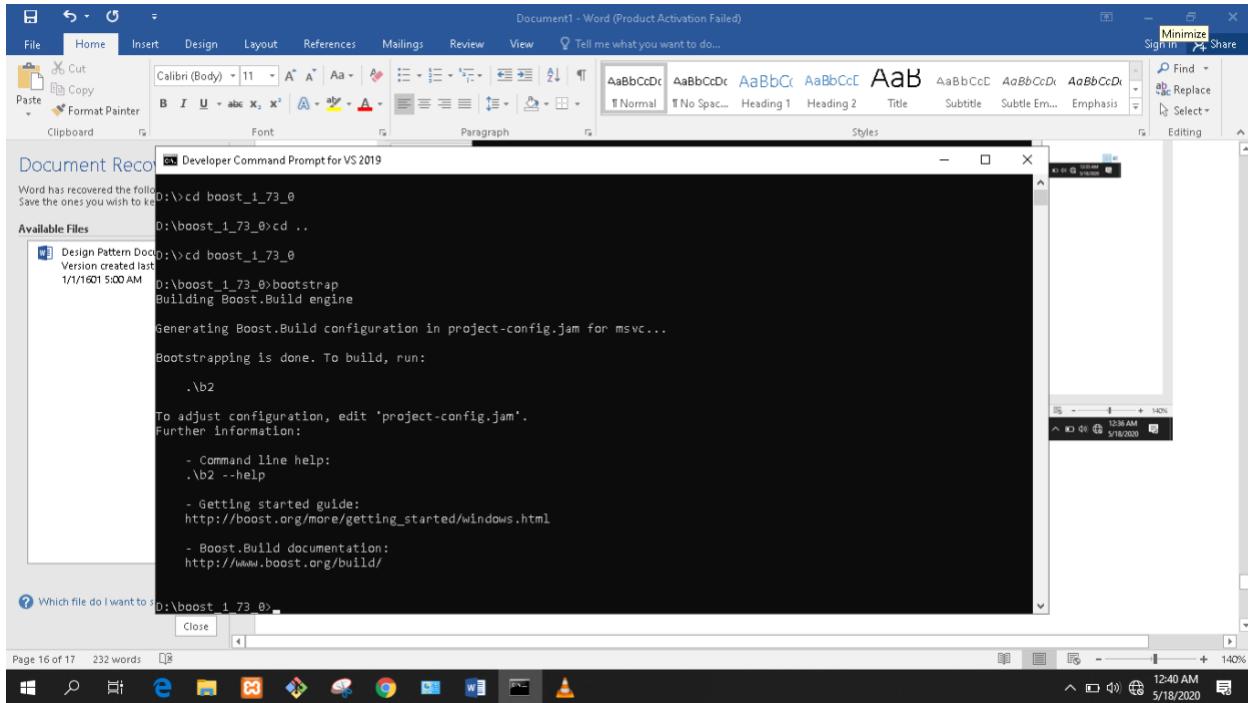
Now type bootstrap



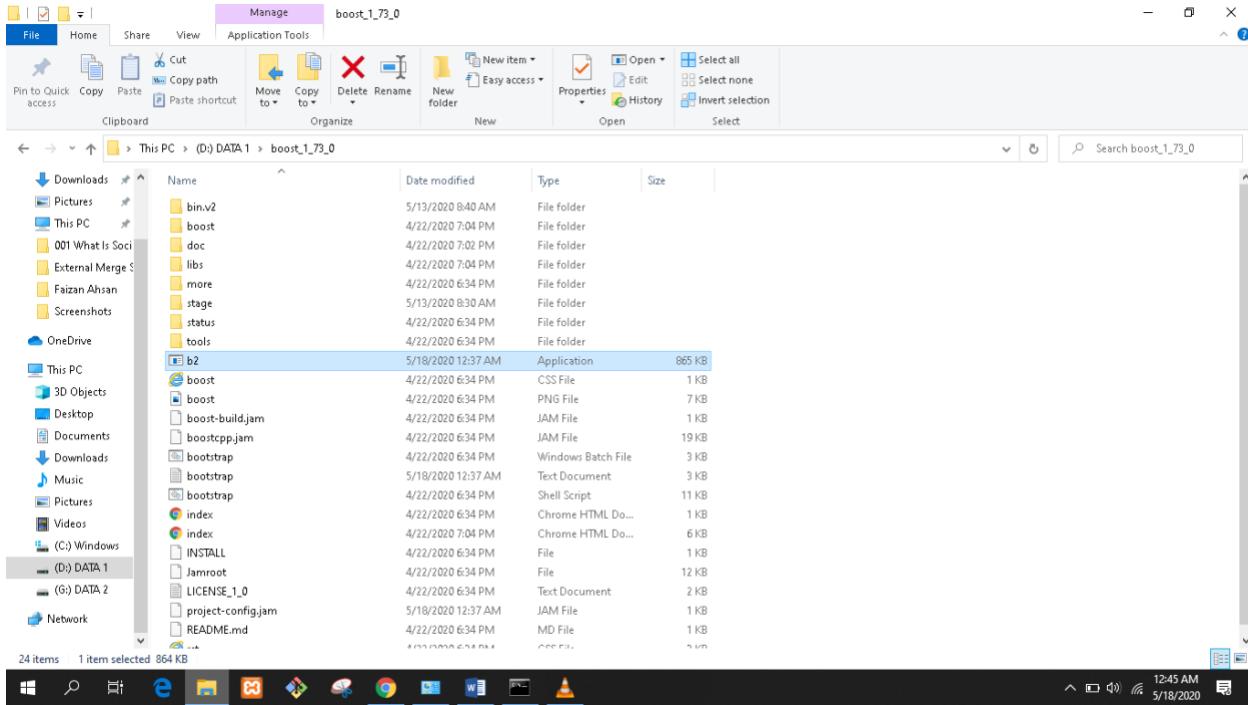
Now press enter and wait for a while.



After it will done.

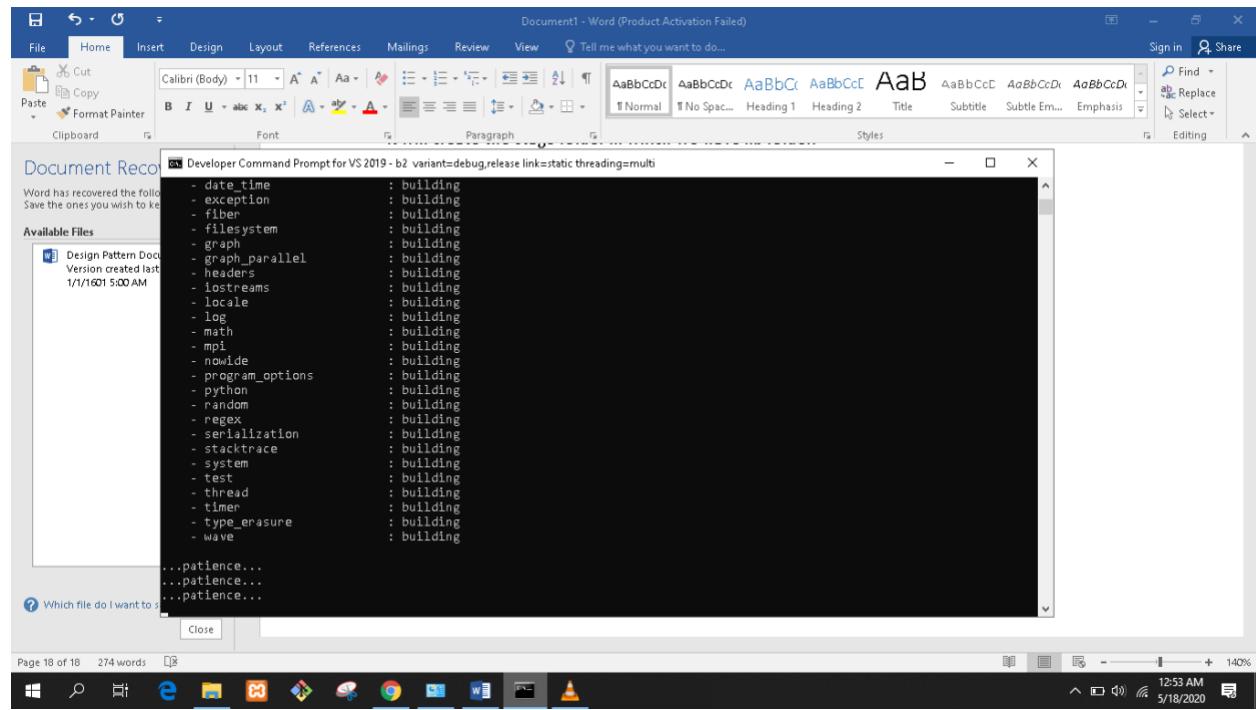
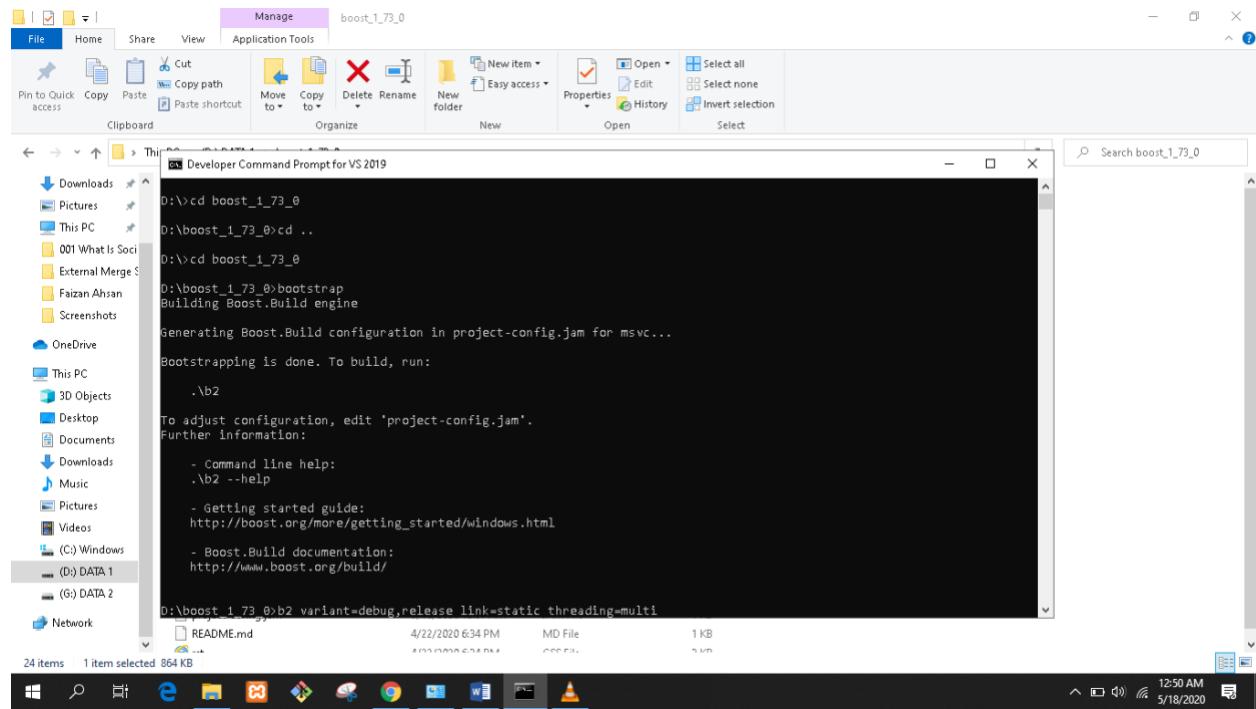


After this an exe file will be created named b2



Now type command

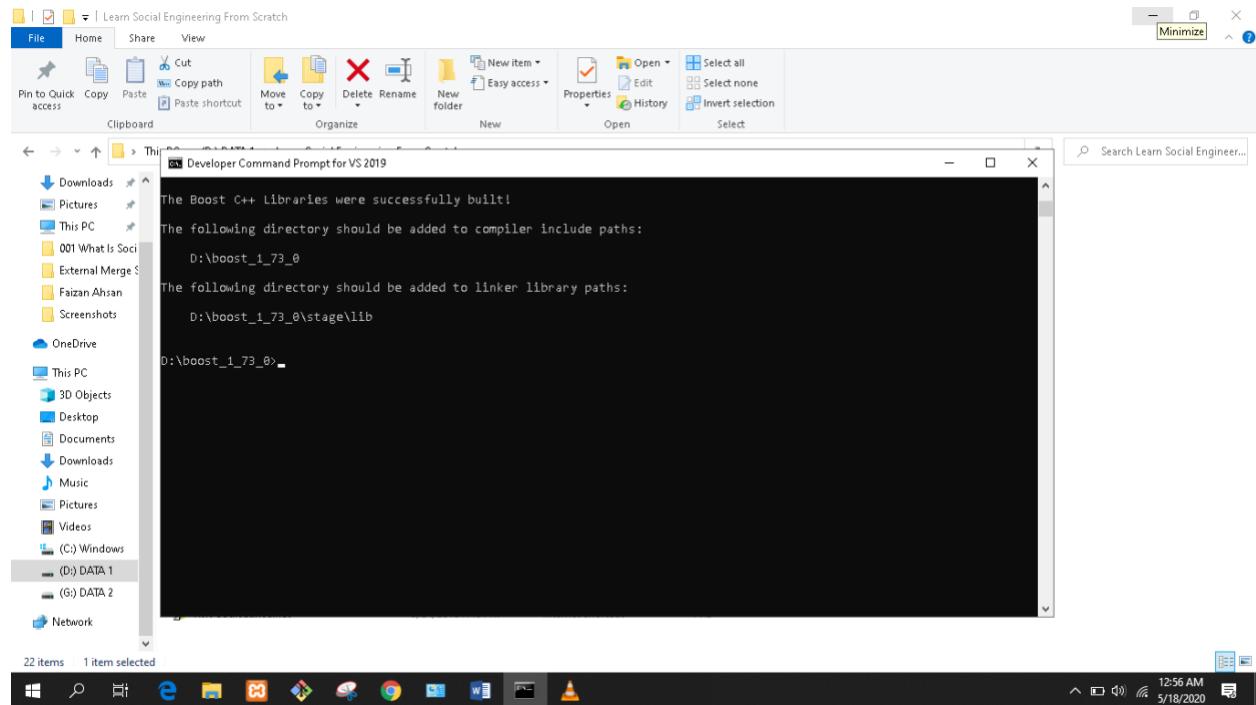
b2 variant=debug,release link=static threading=multi and press enter it will take time



It will create the stage folder in which we have lib folder.

D:/boost_1_73_0/boost

D:/boost_1_73_0/stage/lib



Now we have configured our boost library to link it

Now we can easily link boost and other library for the program

The library directory are:

C:\Program Files\MySQL\Connector C++ 1.1\include

C:\Program Files\MySQL\MySQL Server 8.0\include

C:\Program Files\MySQL\Connector C++ 1.1\lib\opt

C:\Program Files\MySQL\MySQL Server 8.0\lib

D:\boost_1_73_0

D:\boost_1_73_0\stage\lib

We will include all of library into our visual studio step by step

So it will be very easy for use.

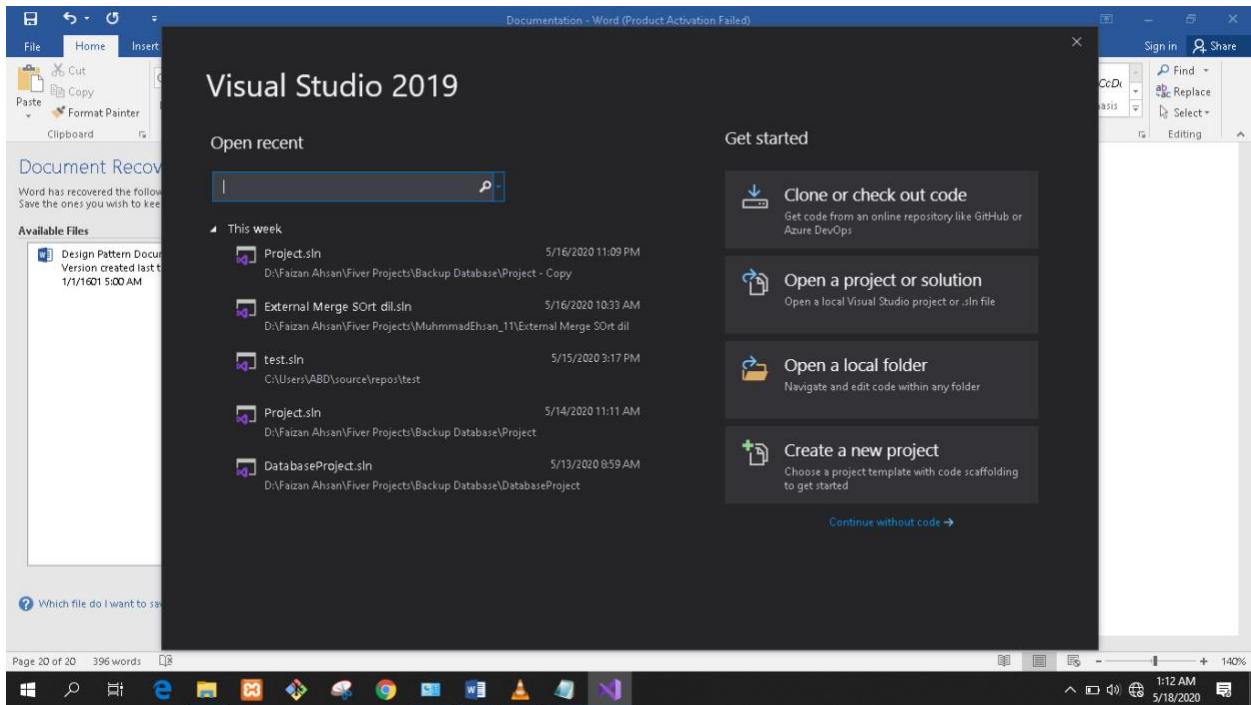
Or you can just open the project that I have send you into your visual studio 19.

It has configured all the director that I have mentioned above.

If you want to do this so we will setup it from start.

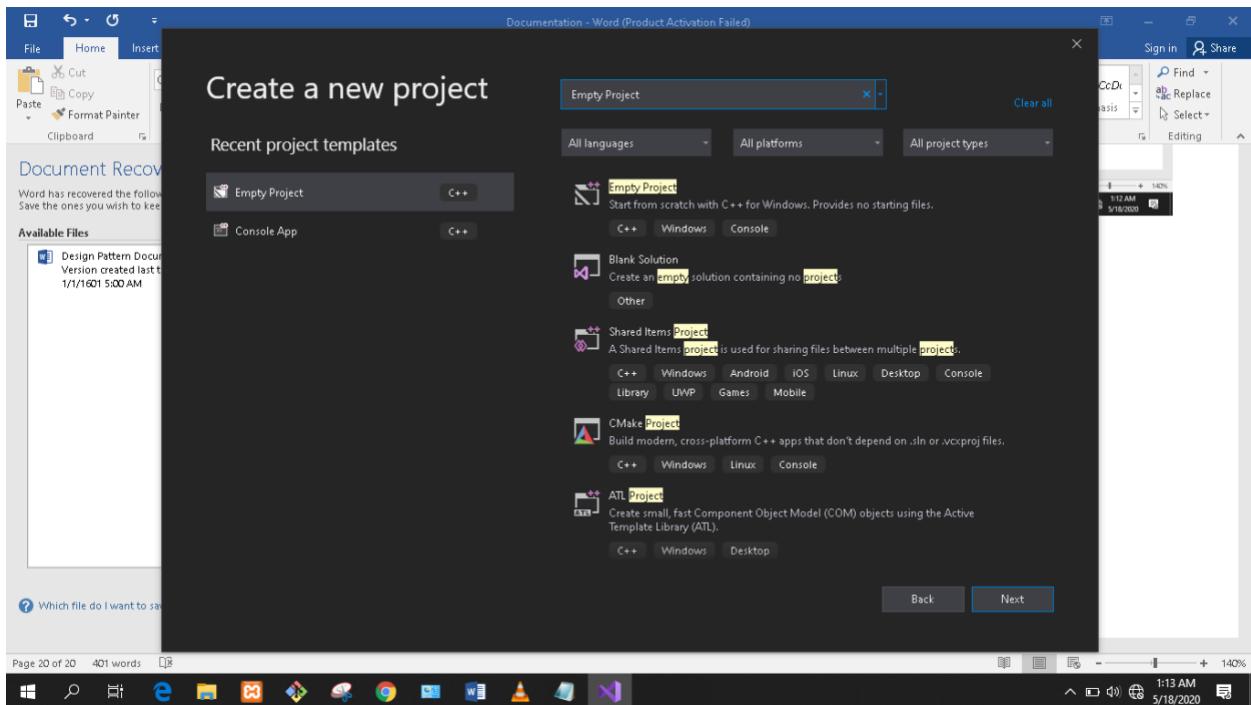
Now I'm doing it from start it will be very easy.

Just run visual studio 2019.

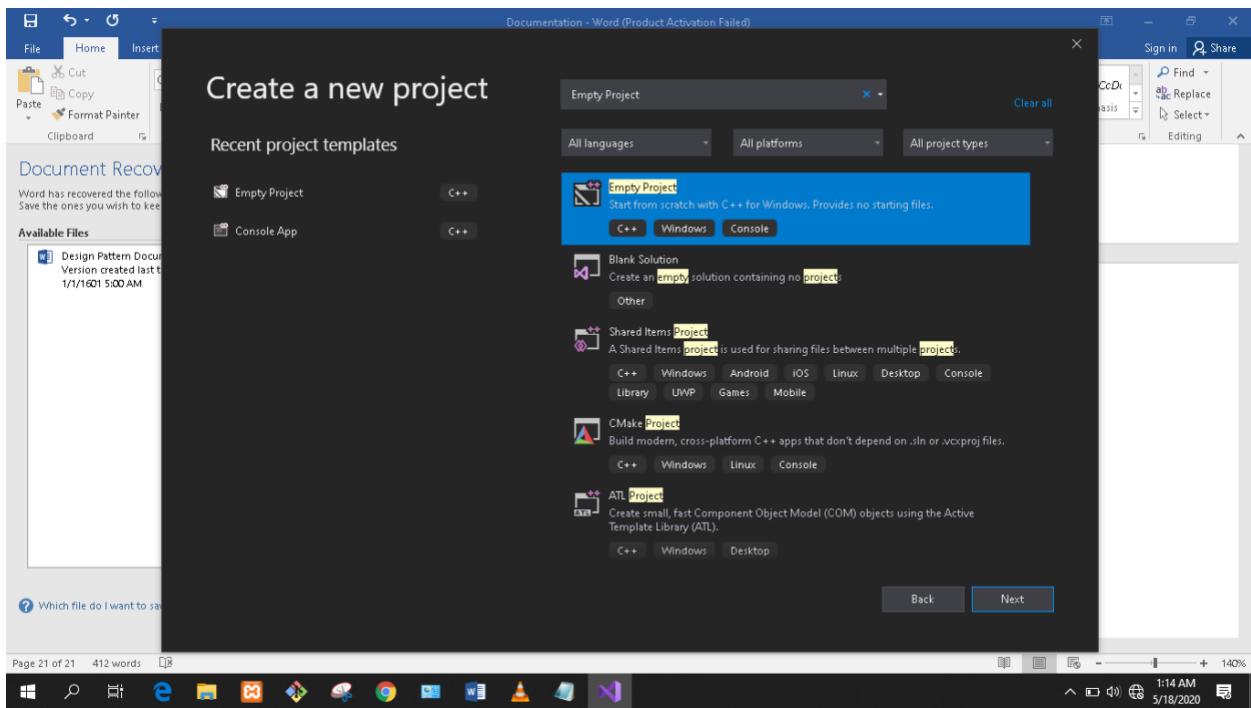


Now create a new project.

Search for Empty Project.



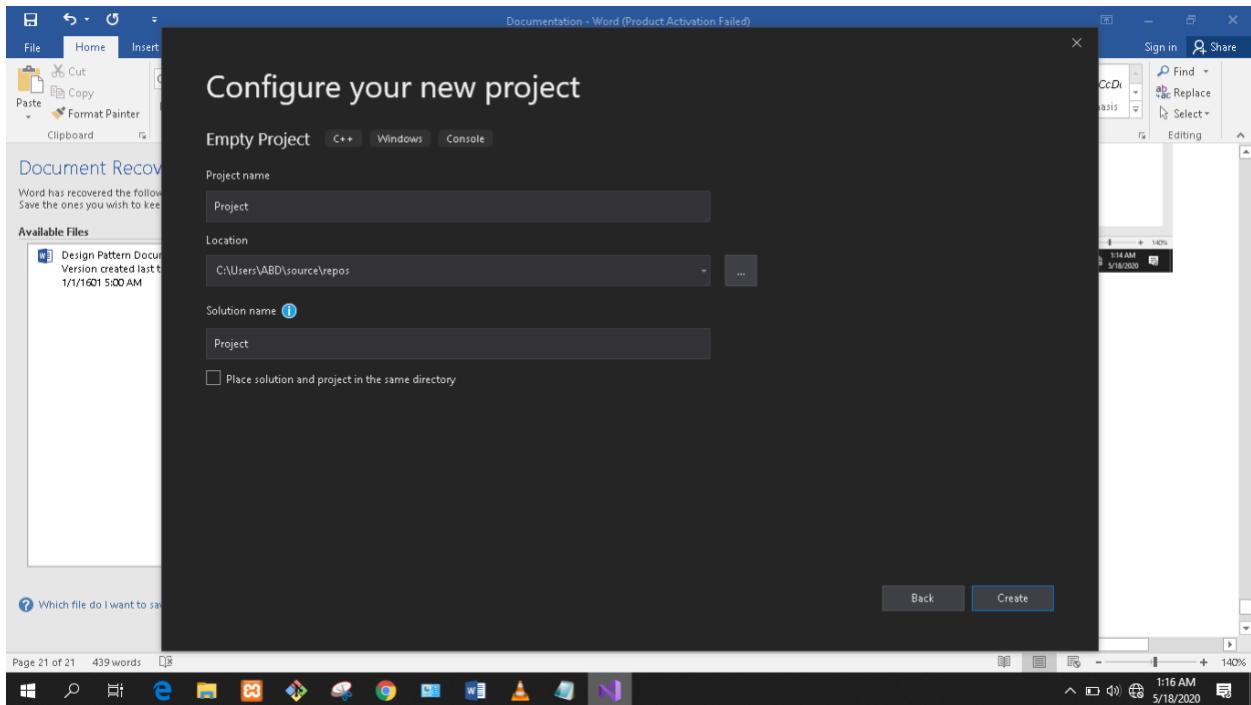
Click on it and click on next.



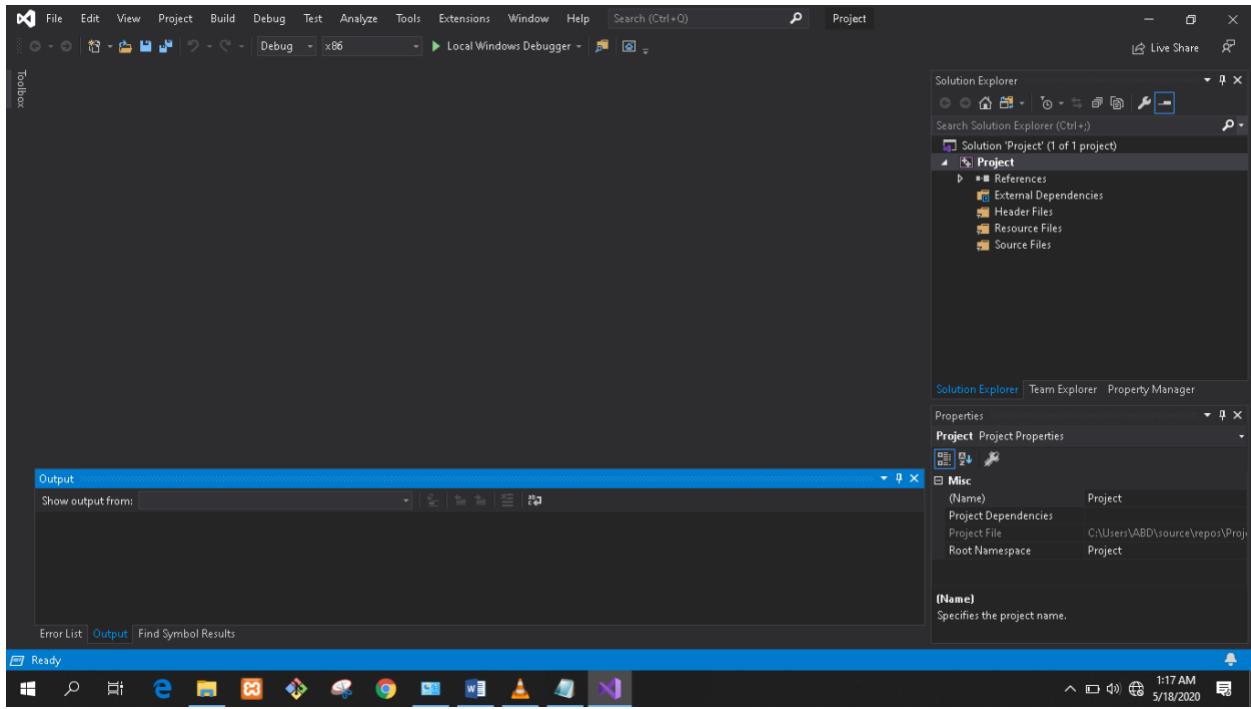
Now name the project and change its location where you want to have it.

Like D:\Projects\

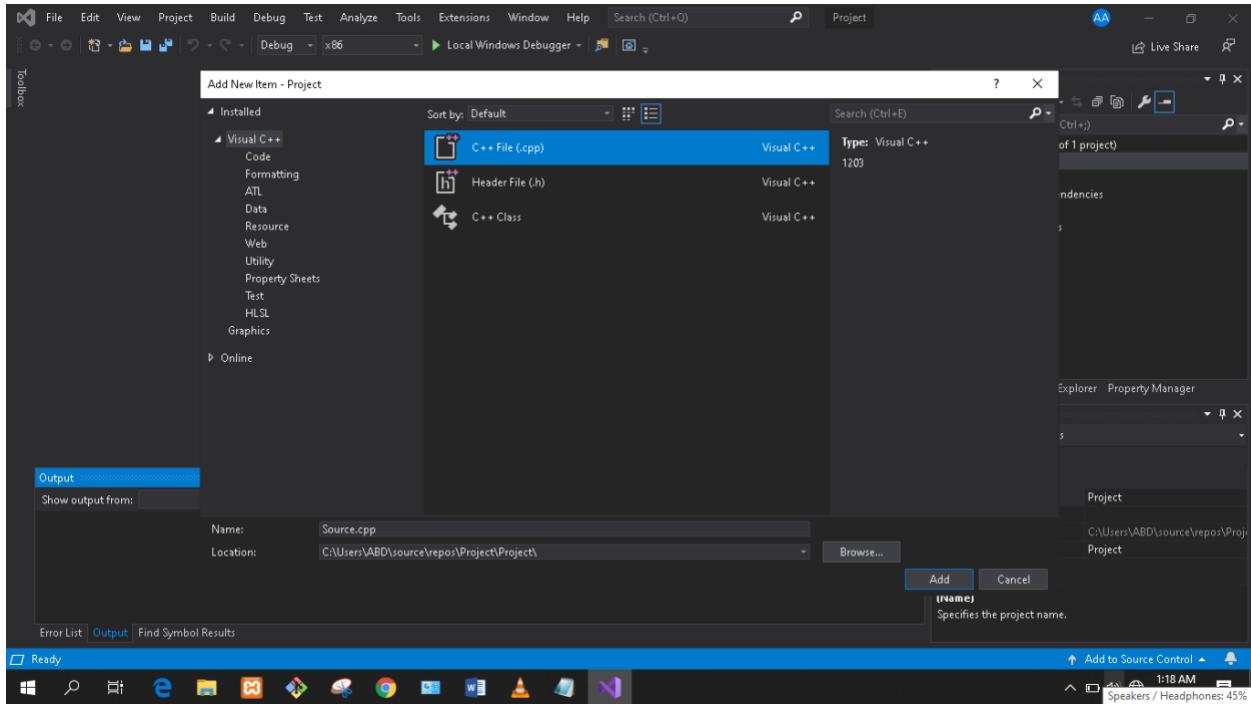
I do it as same in C:\Users\ABD\source\repos and click on create



Now an empty project will be created.

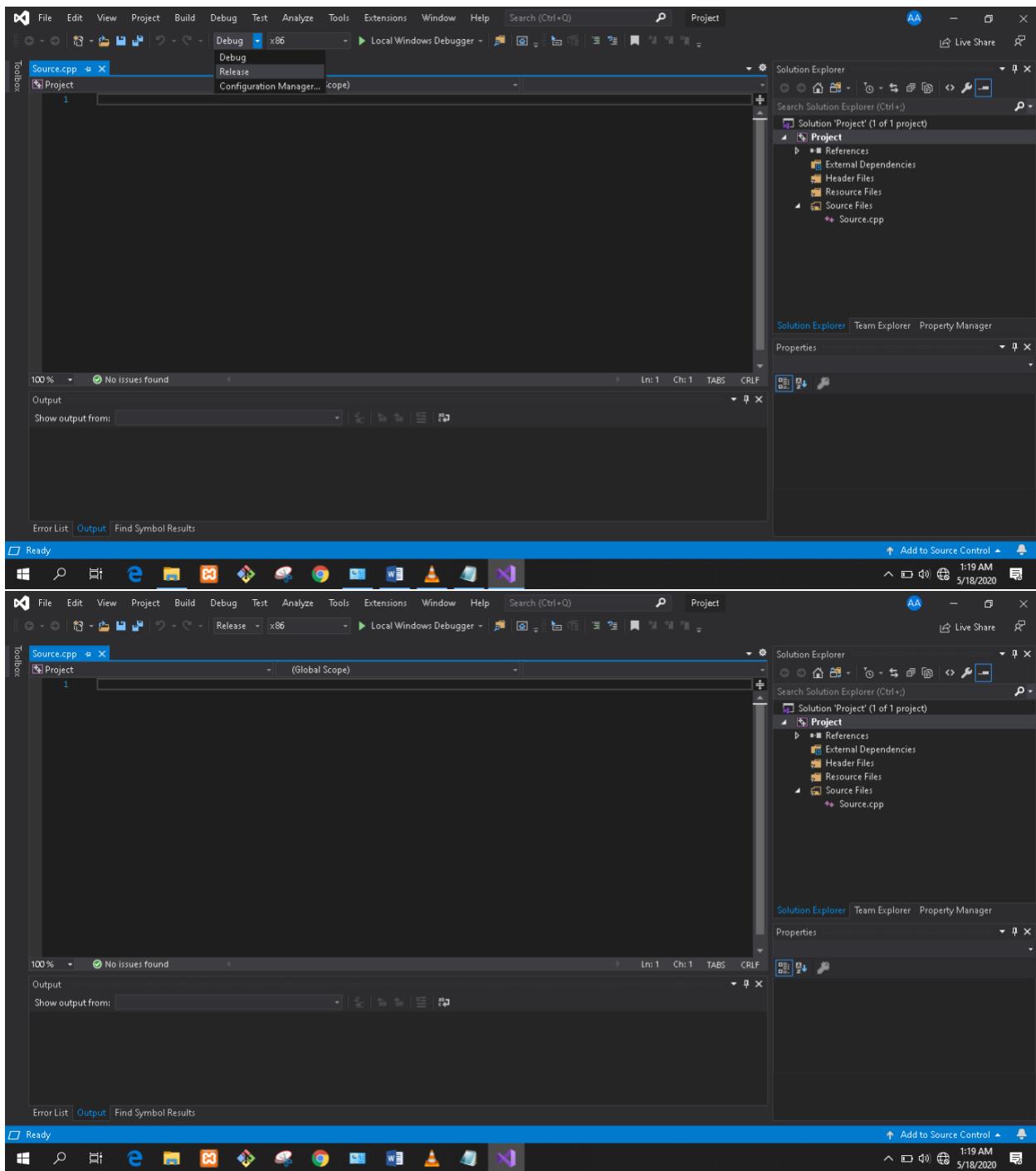


Ctrl+shift+A to add file into the current project

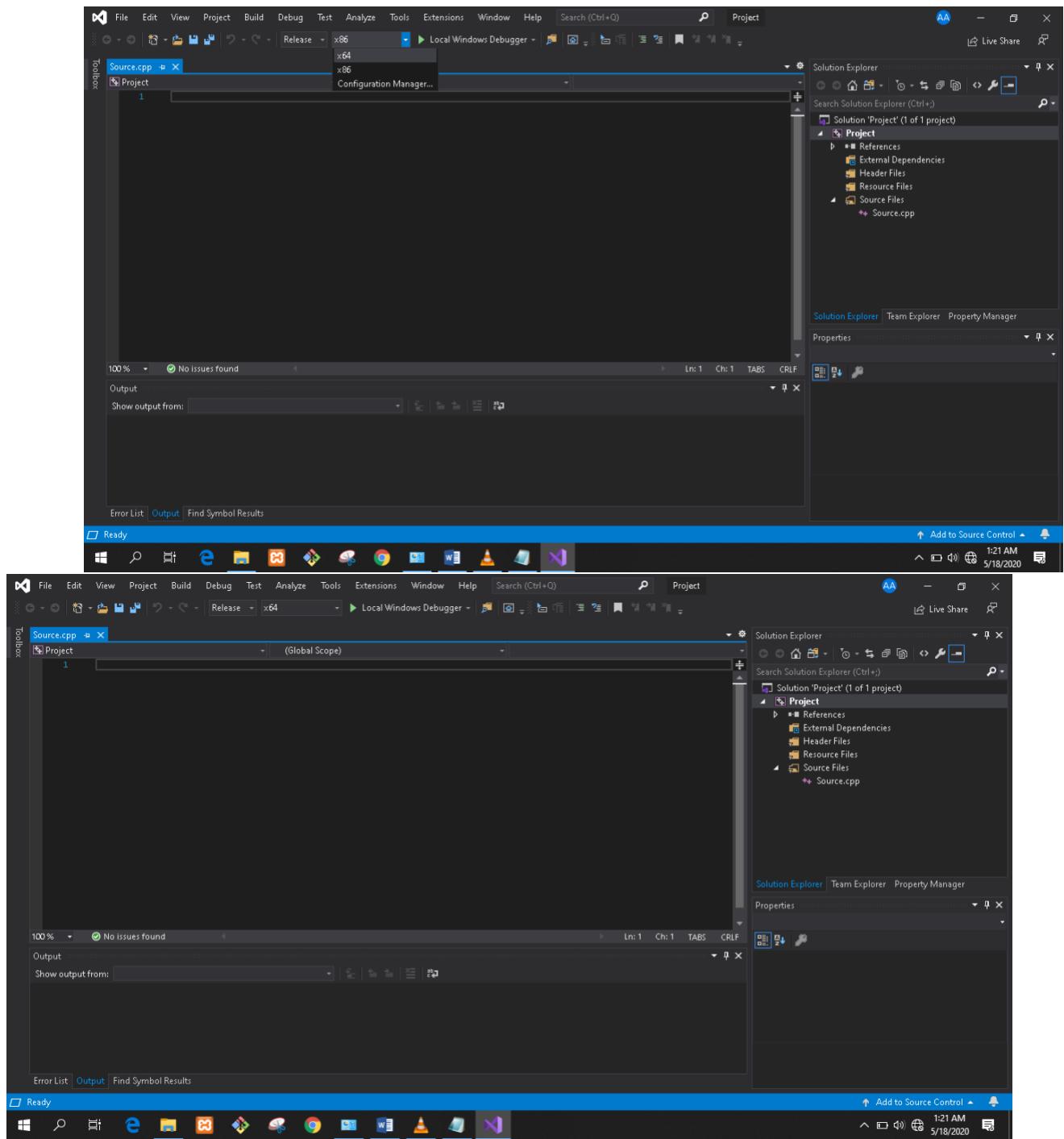


Add a c++ source file which will be the main file

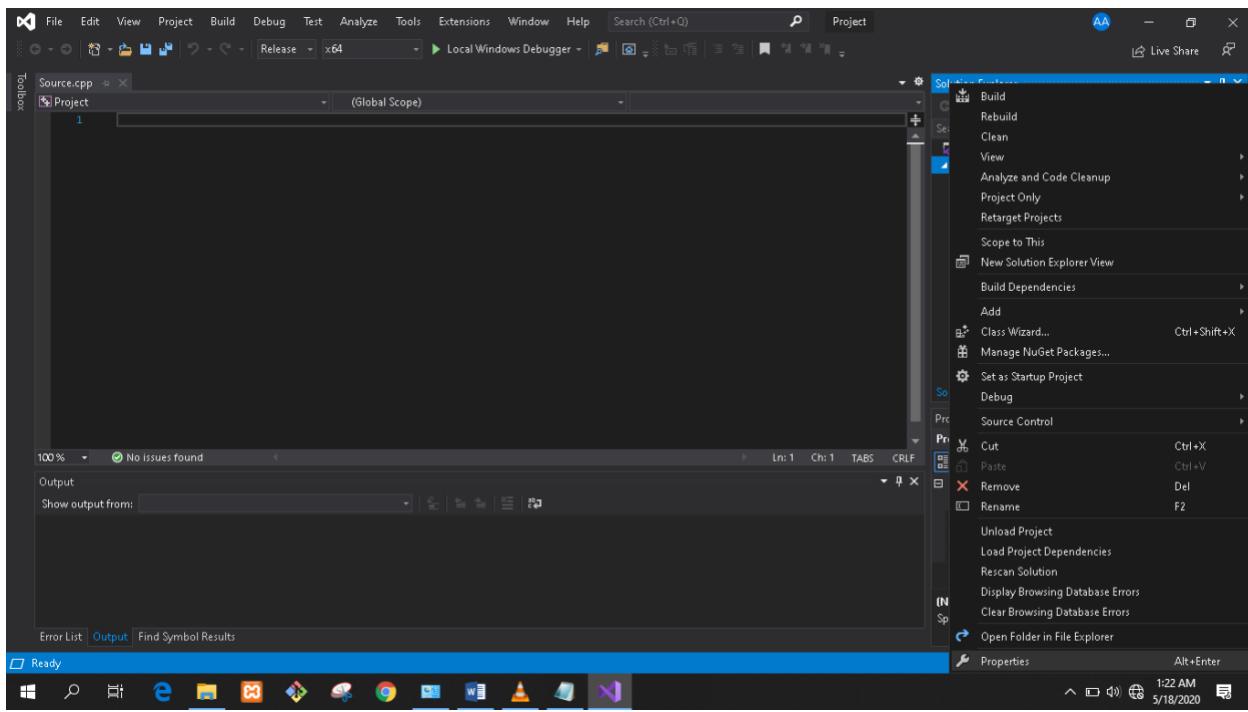
And change debug to release



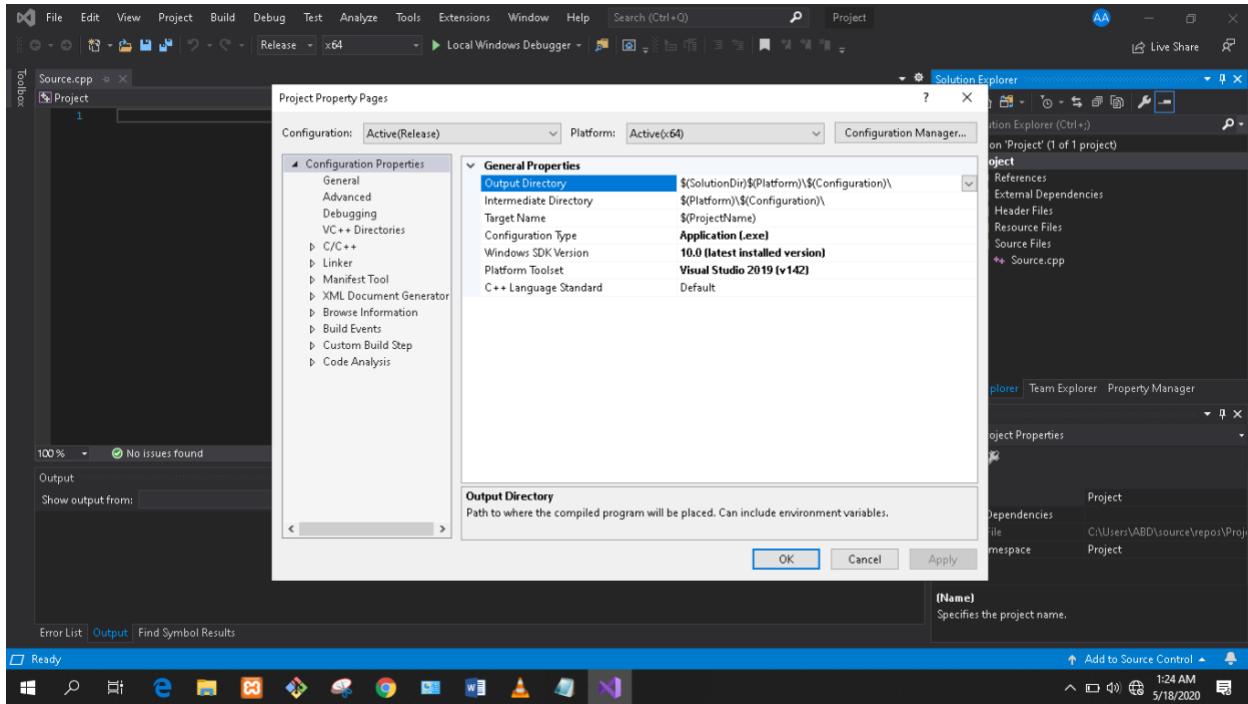
Now change x86 to x64



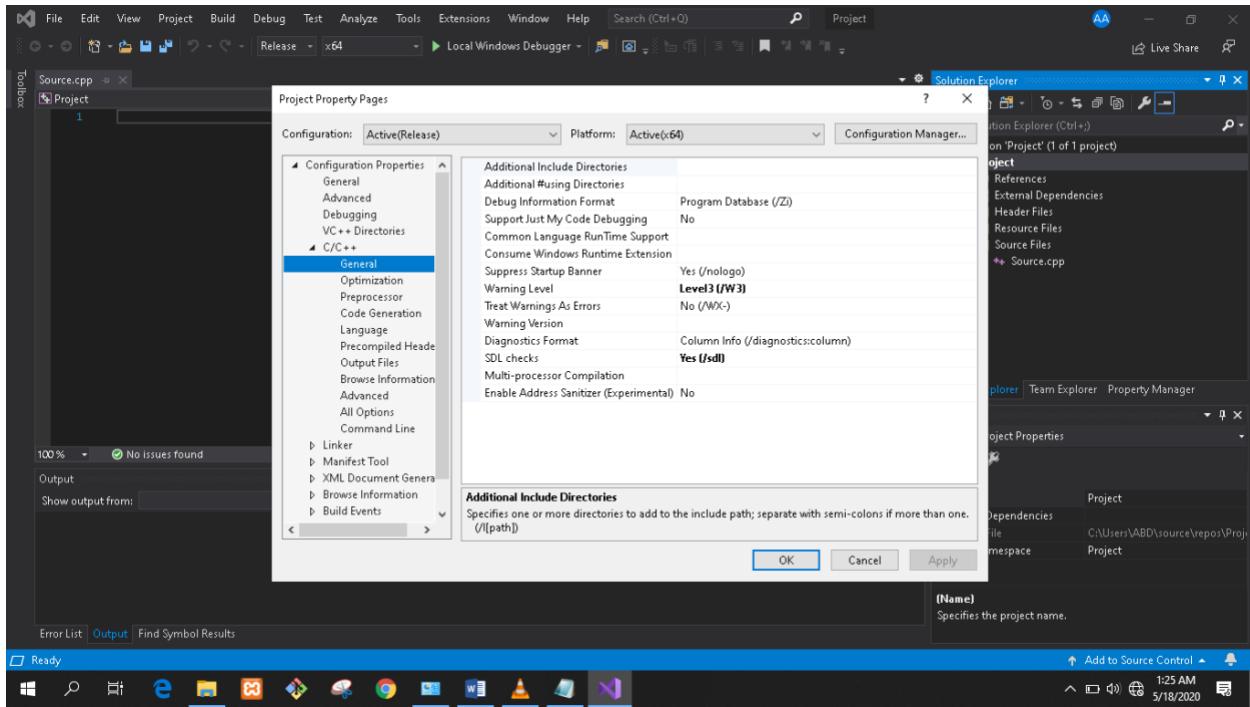
Now right click on project and click to properties.



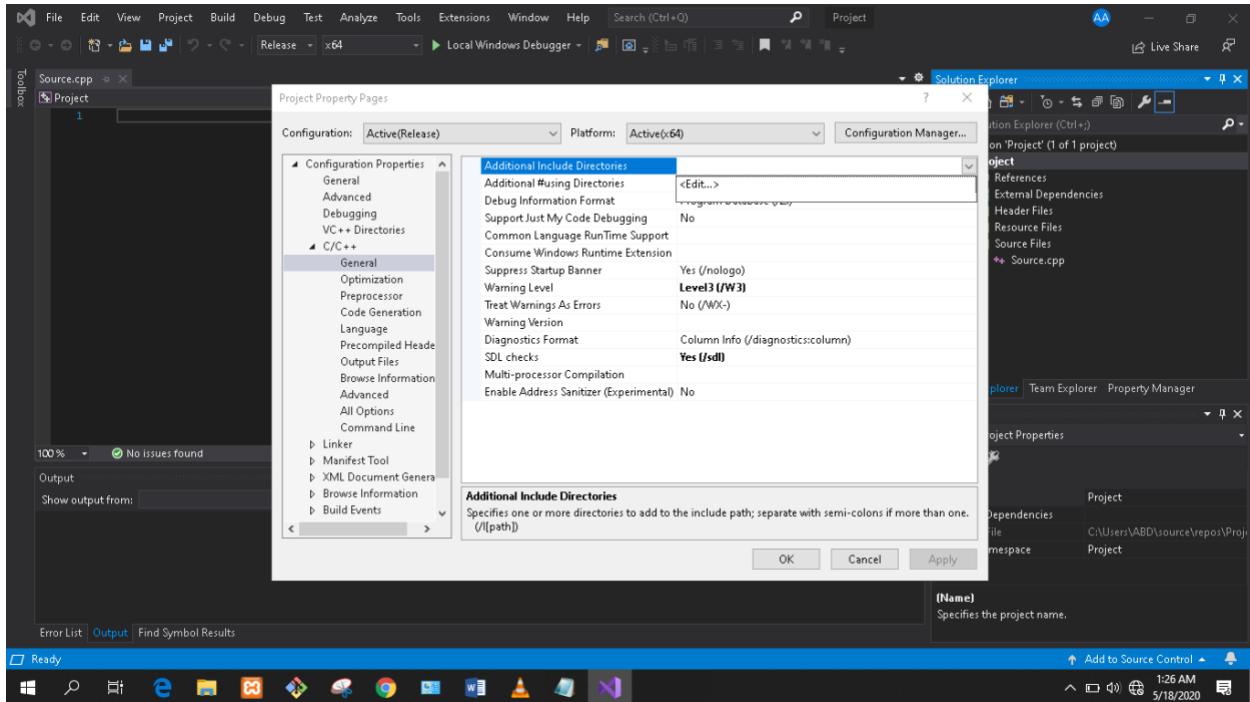
After clicking on properties a dialogue box will be open.



Now under C/C++ click to general.

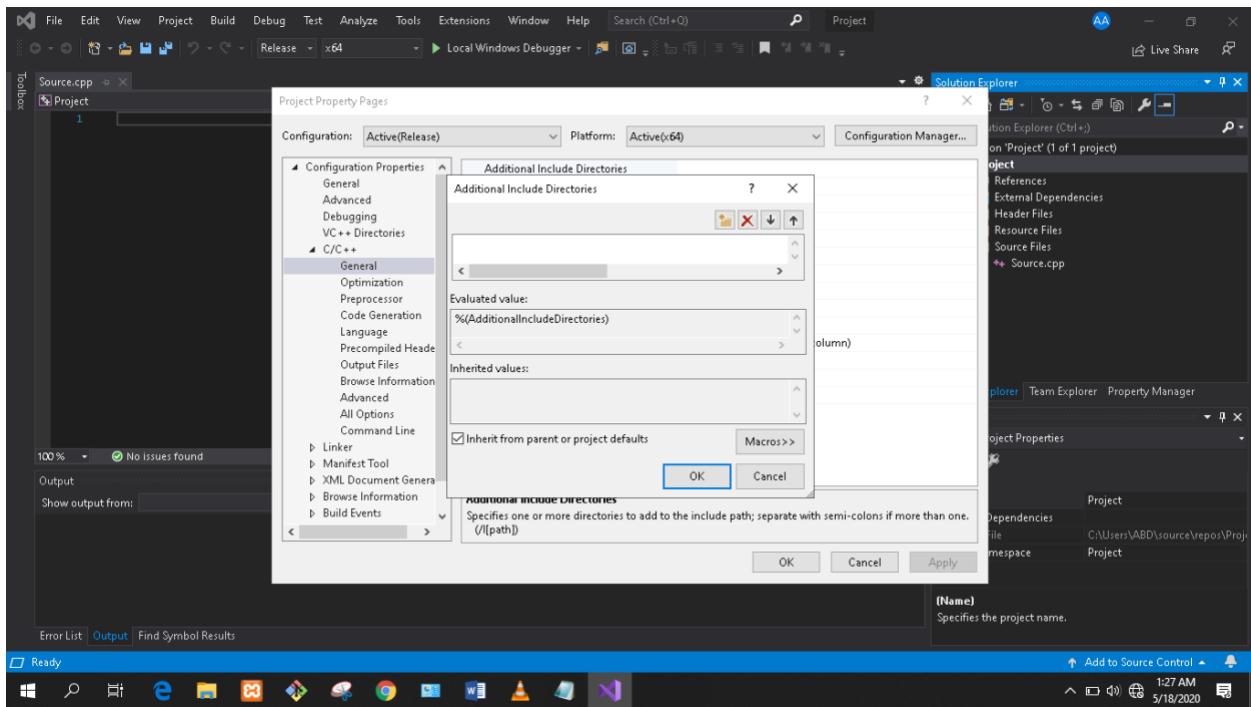


Now into Additional Include Directories click to drop down and click on edit.



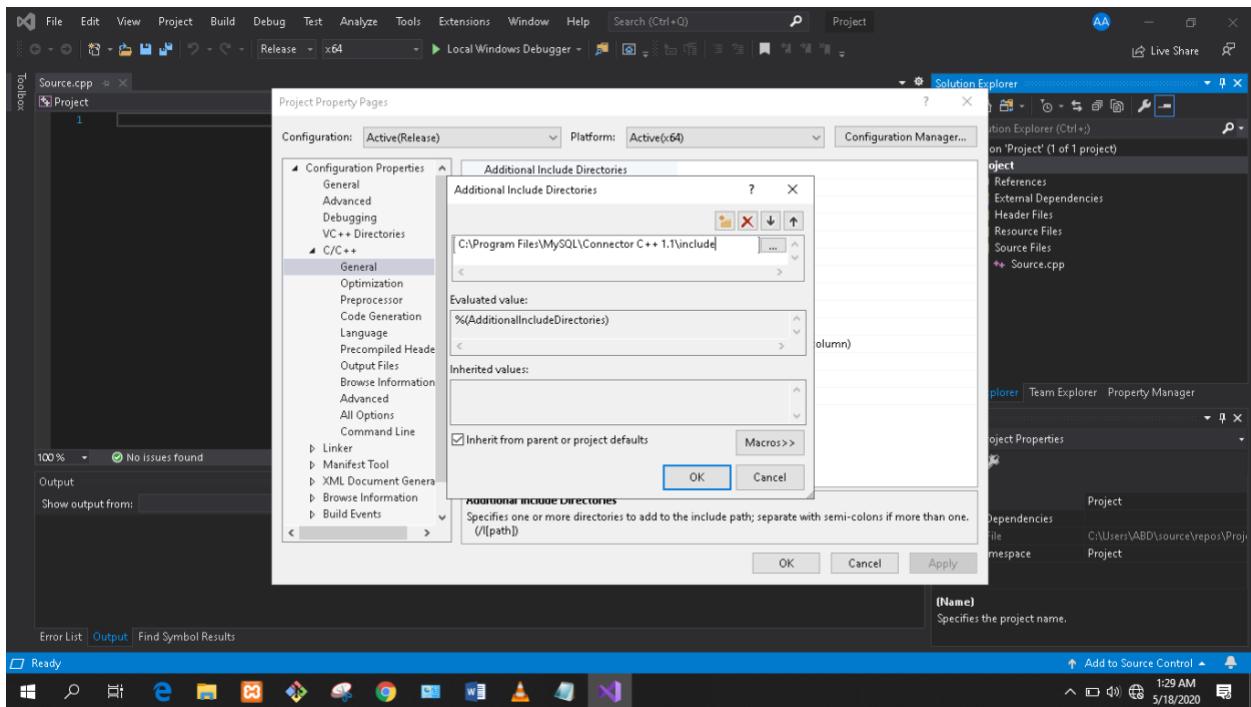
Click on edit.

A dialogue box will be opened.

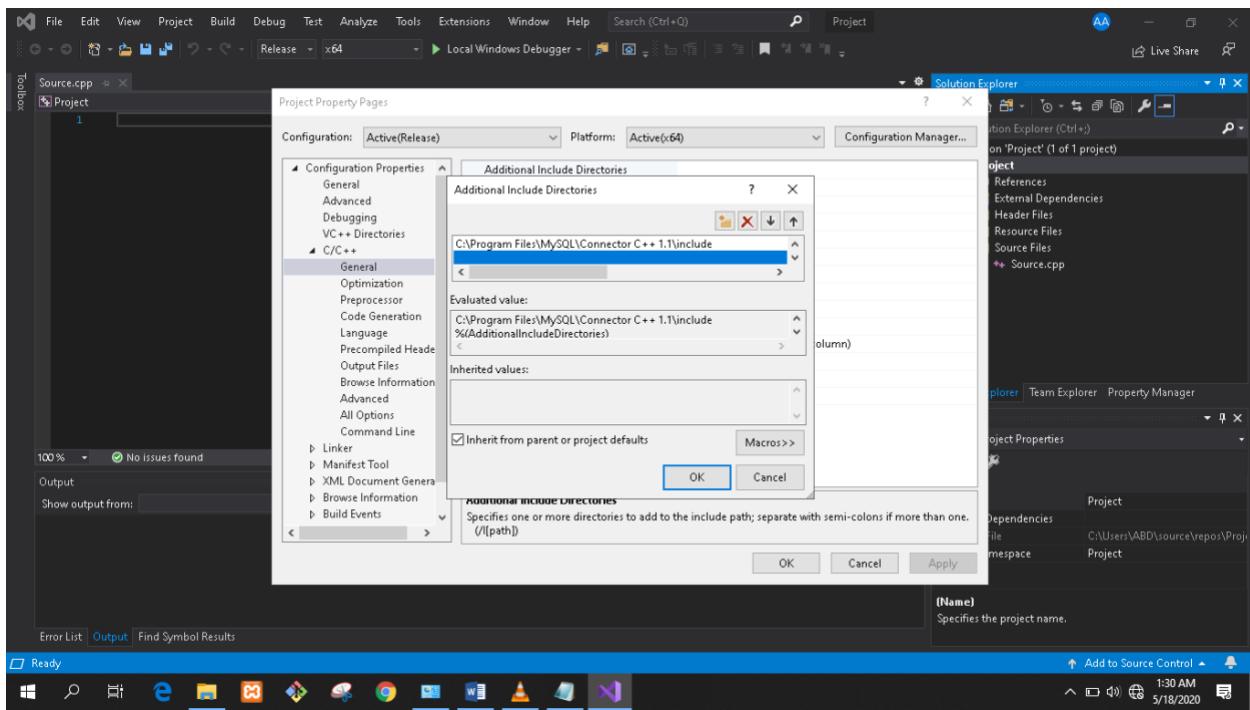


Now copy this one by one into that space.

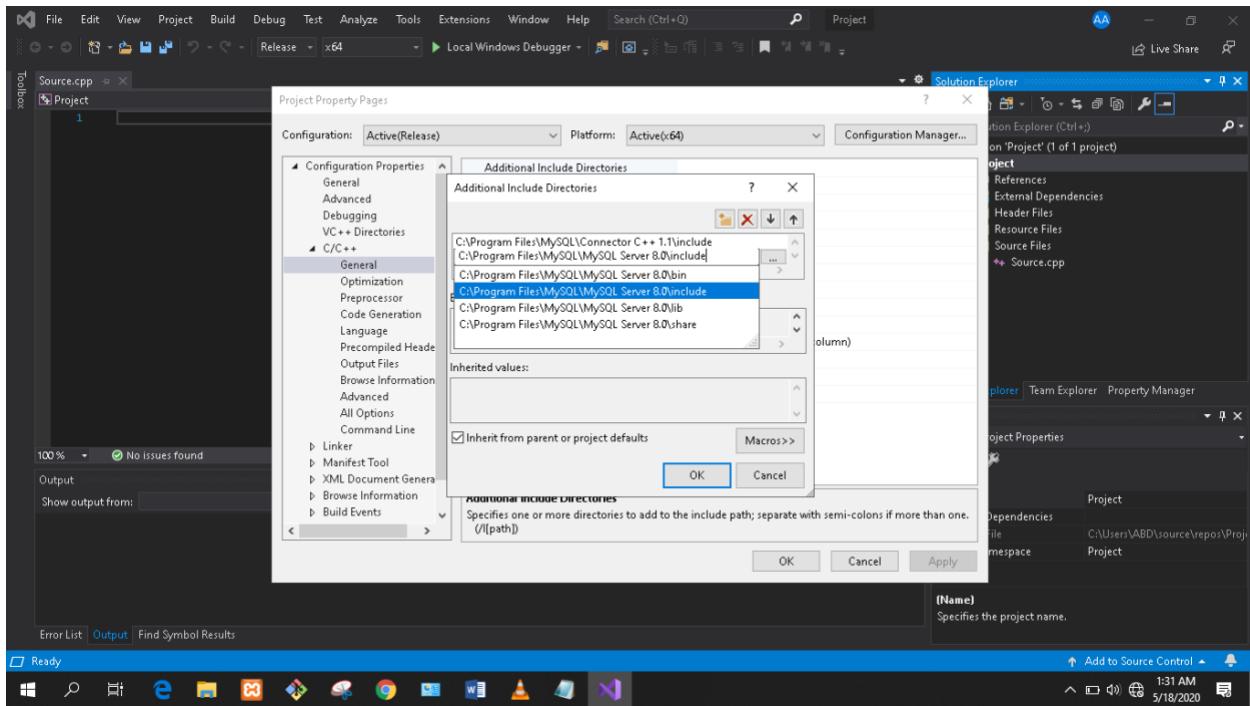
C:\Program Files\MySQL\Connector C++ 1.1\include



Double Click on the blue area.



Paste it C:\Program Files\MySQL\MySQL Server 8.0\include

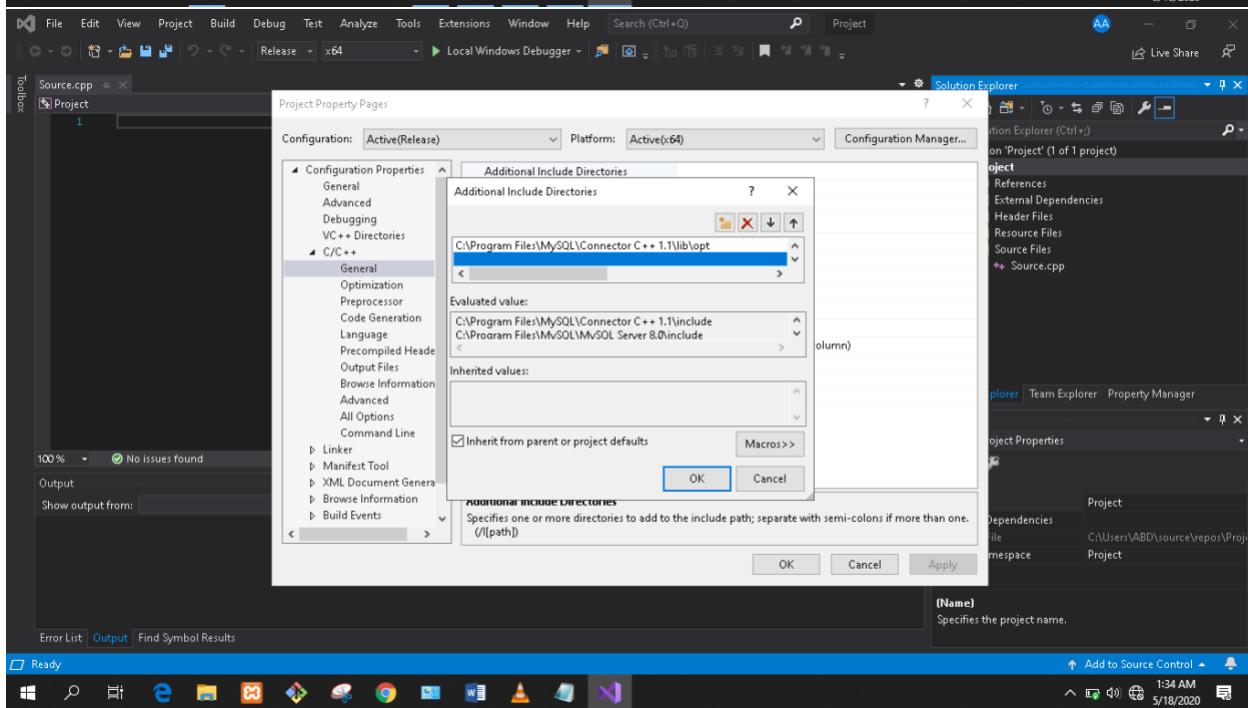
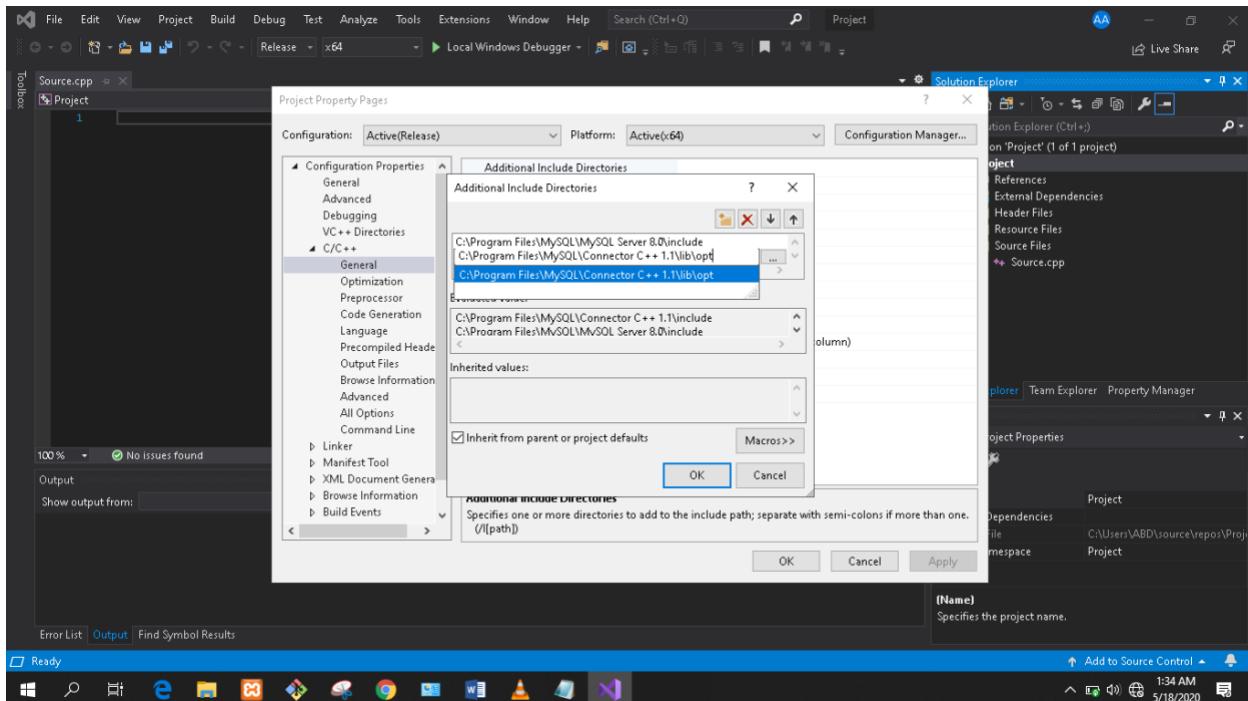


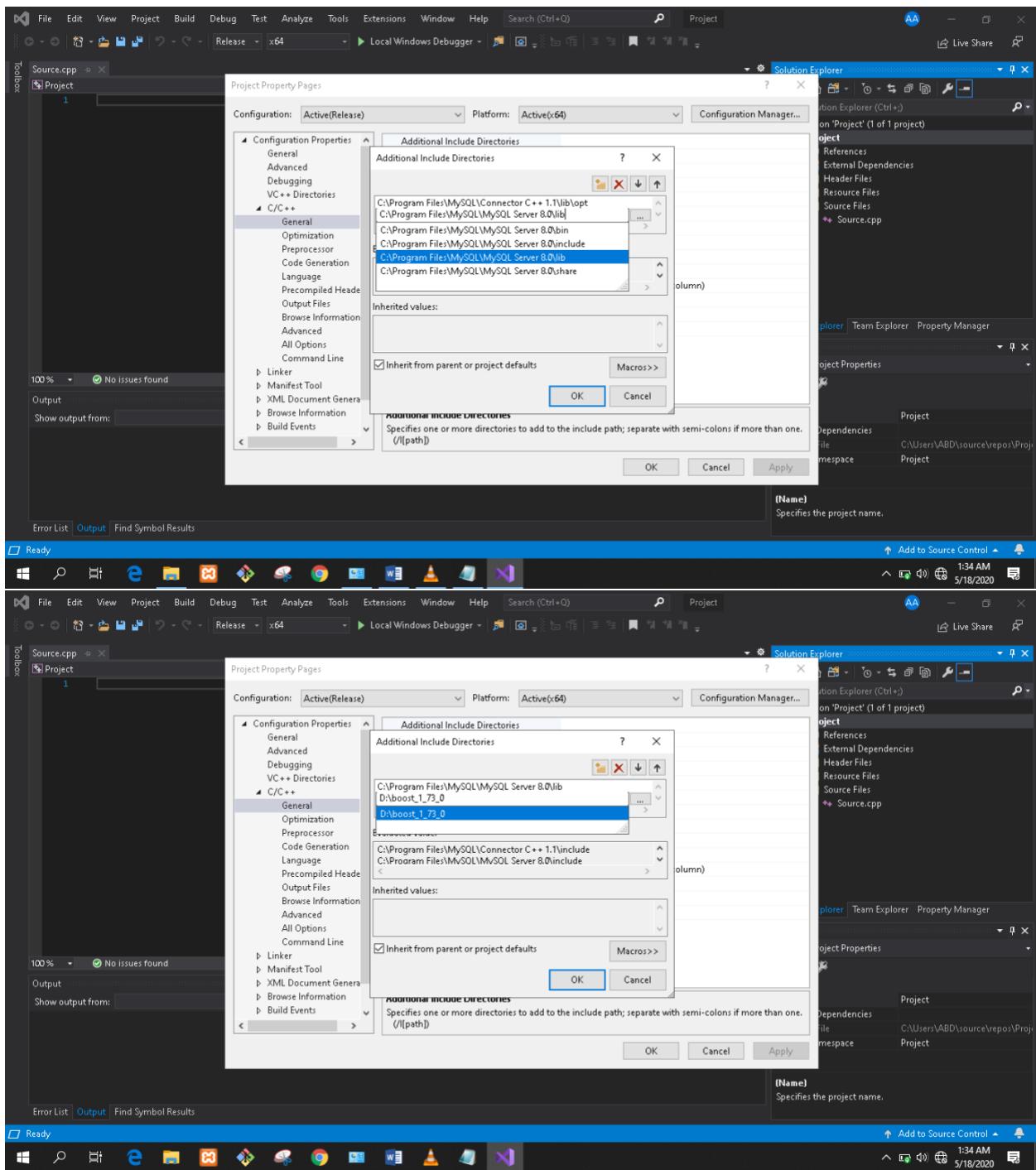
Now similarly add after.

C:\Program Files\MySQL\Connector C++ 1.1\lib\opt

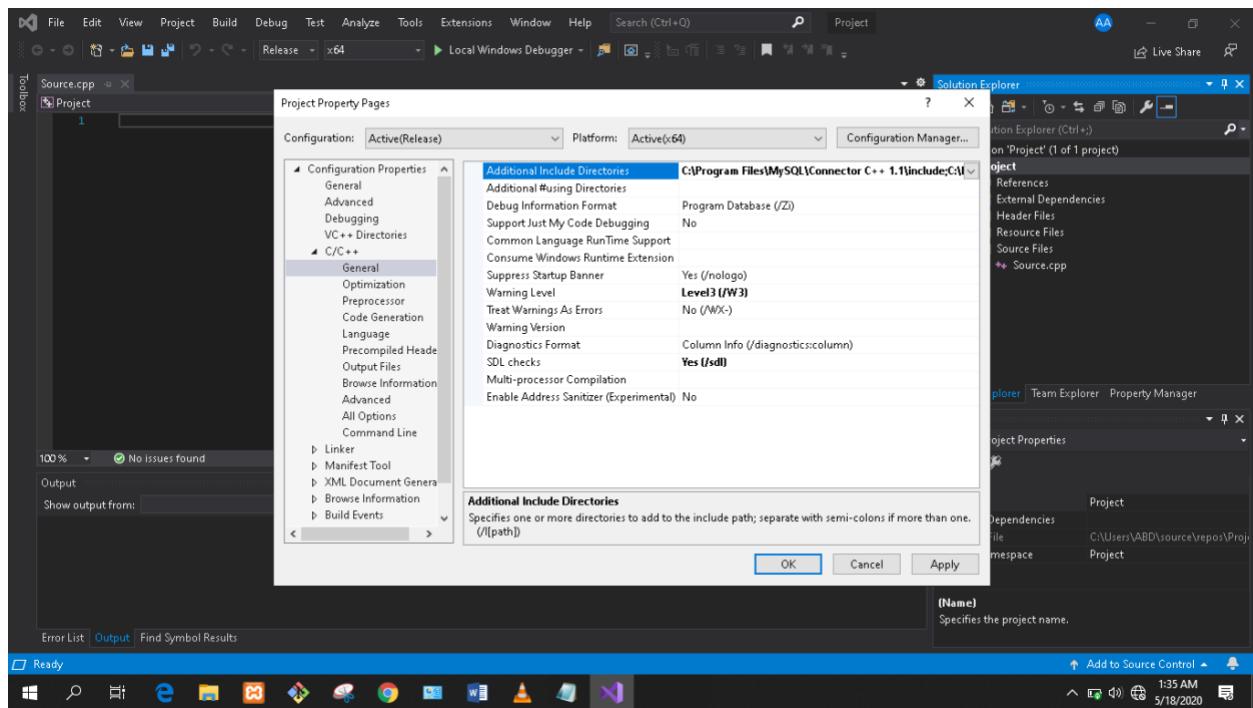
C:\Program Files\MySQL\MySQL Server 8.0\lib

D:\boost_1_73_0

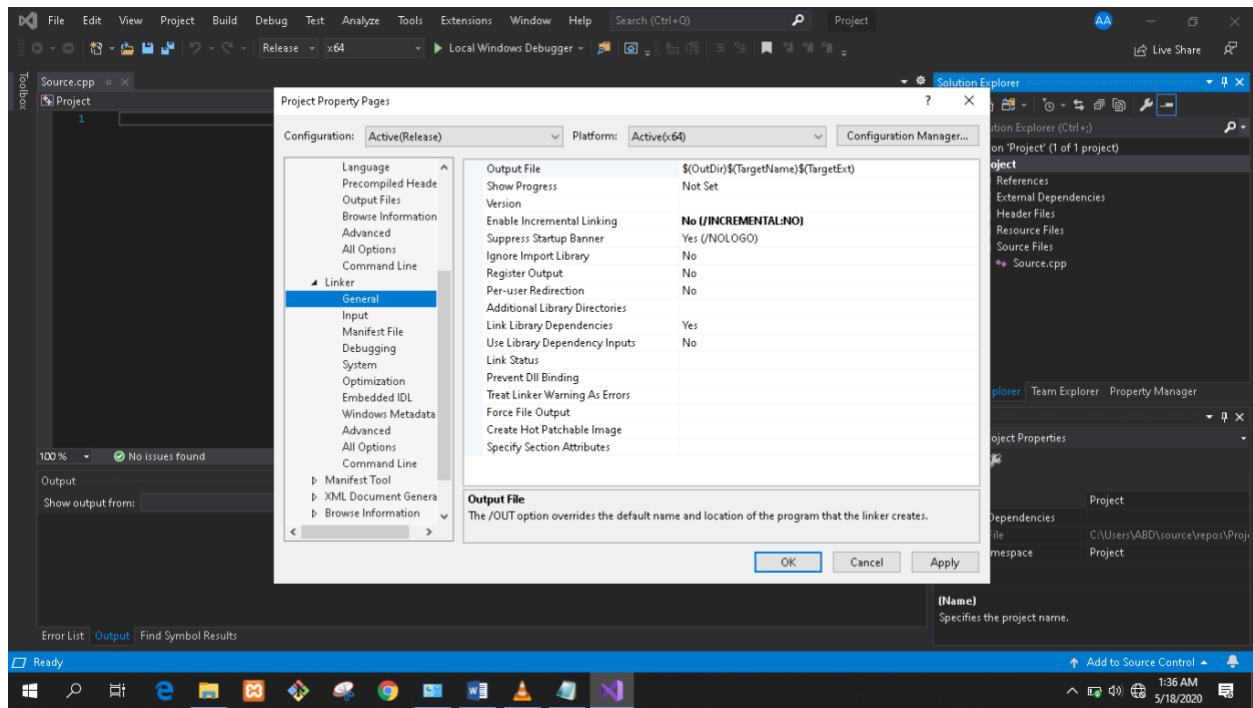




Now click ok.

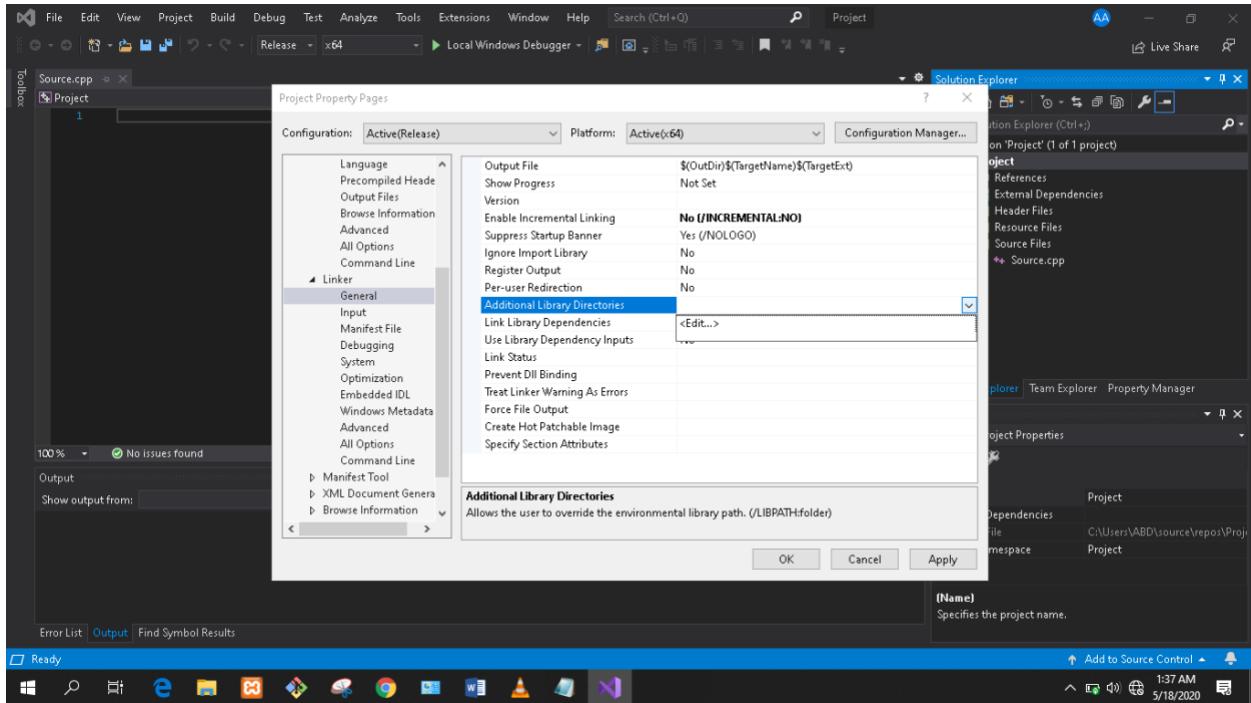


Now under linker click to General.



Their we have also Additional Libraries Directories.

Click to drop down and click edit.



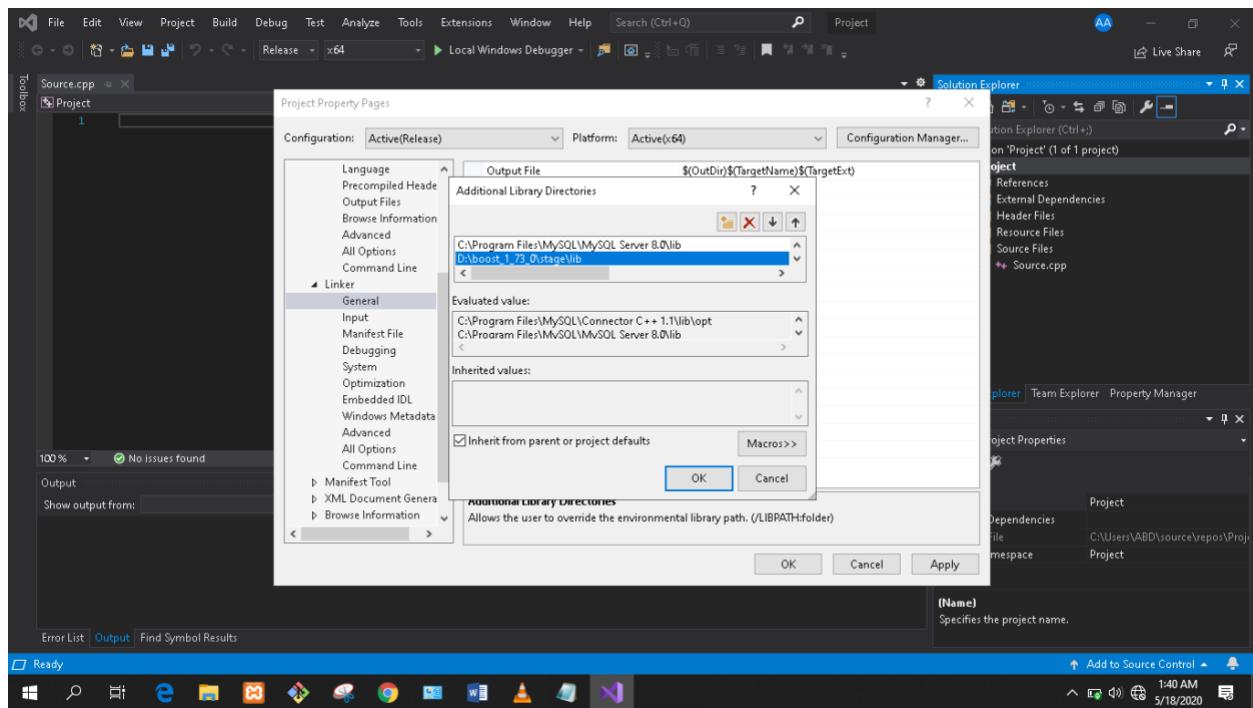
Now a dialogue box will be open.

Similar add these directories.

C:\Program Files\MySQL\Connector C++ 1.1\lib\opt

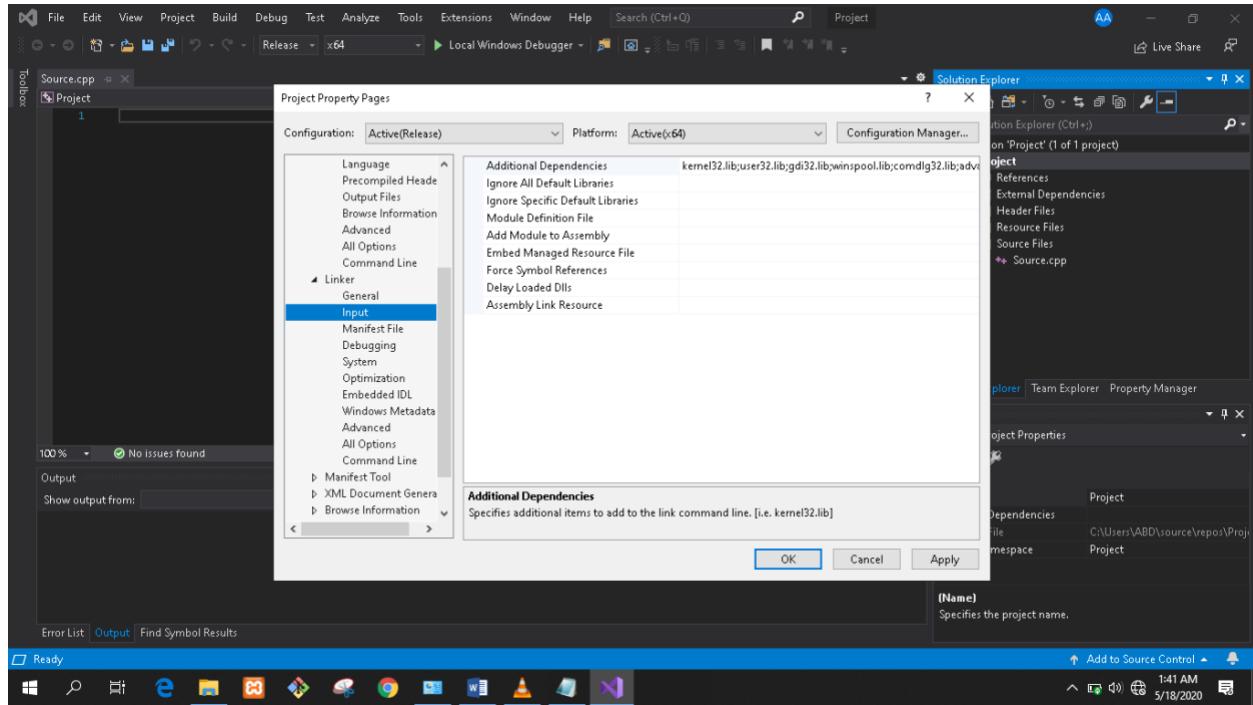
C:\Program Files\MySQL\MySQL Server 8.0\lib

D:\boost_1_73_0\stage\lib

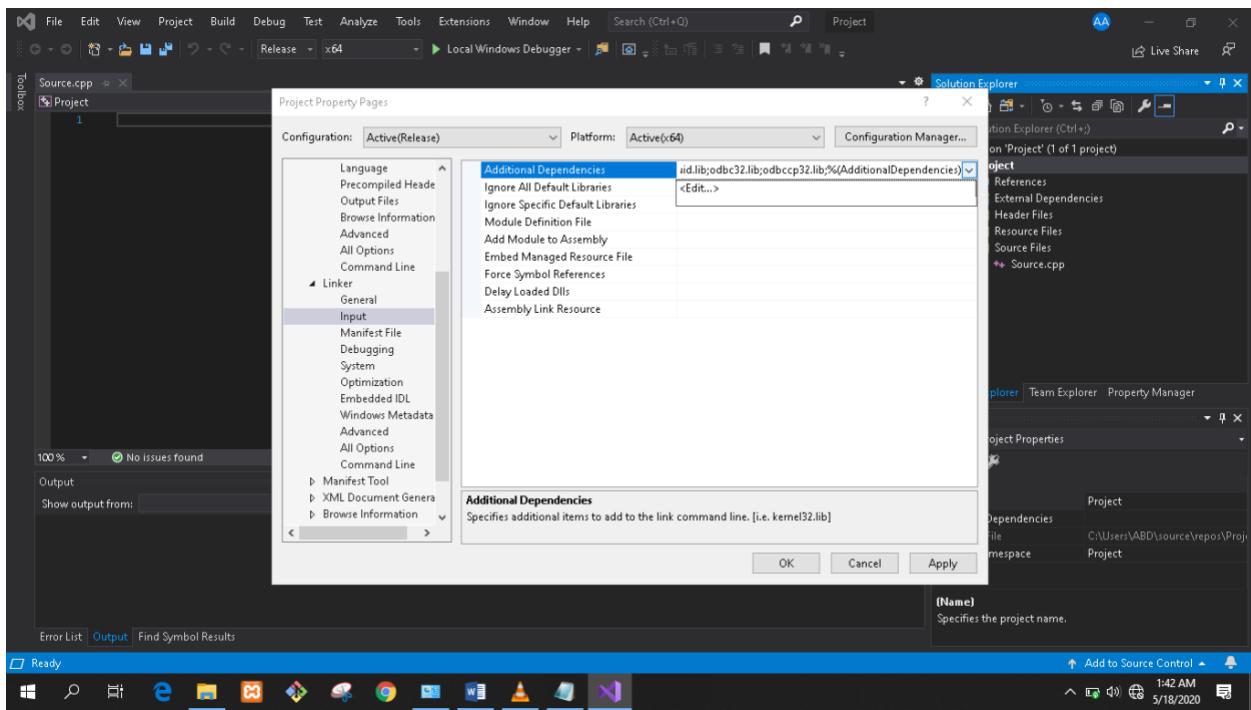


After adding it click on ok.

Now go to input under the Linker



There is an option Additional Dependencies and click the dropdown and click on edit.

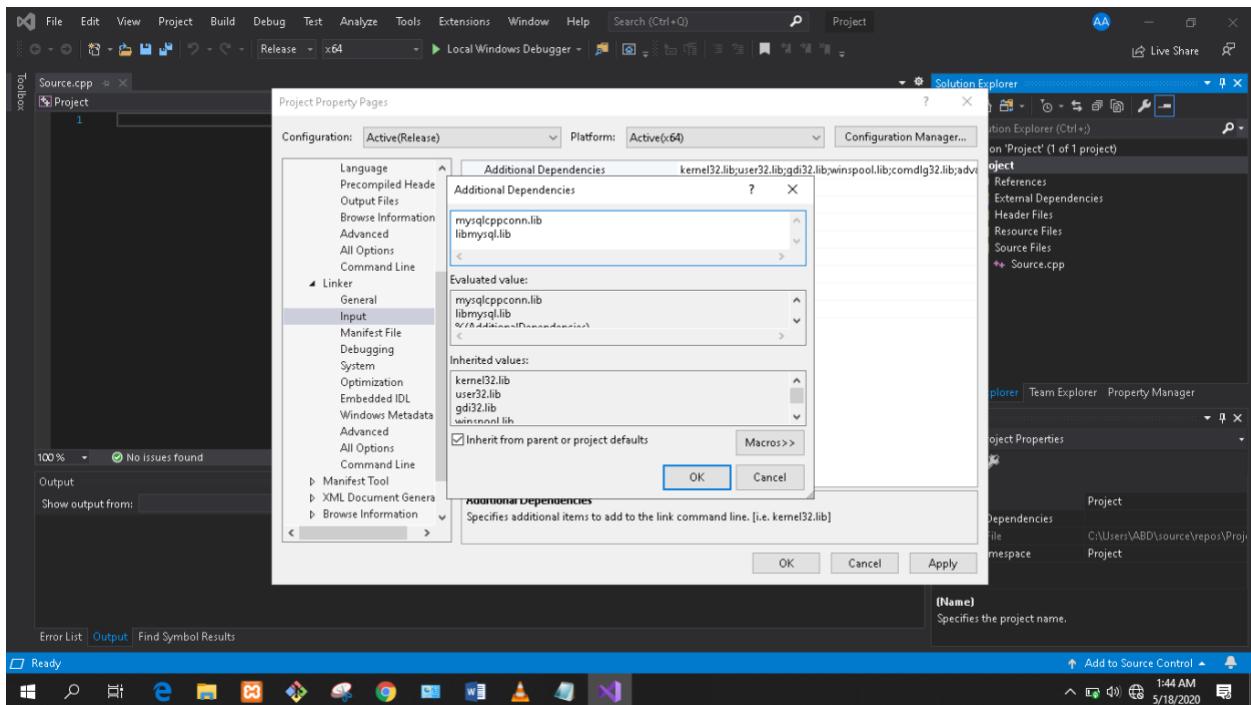


An dialogue box will be open.

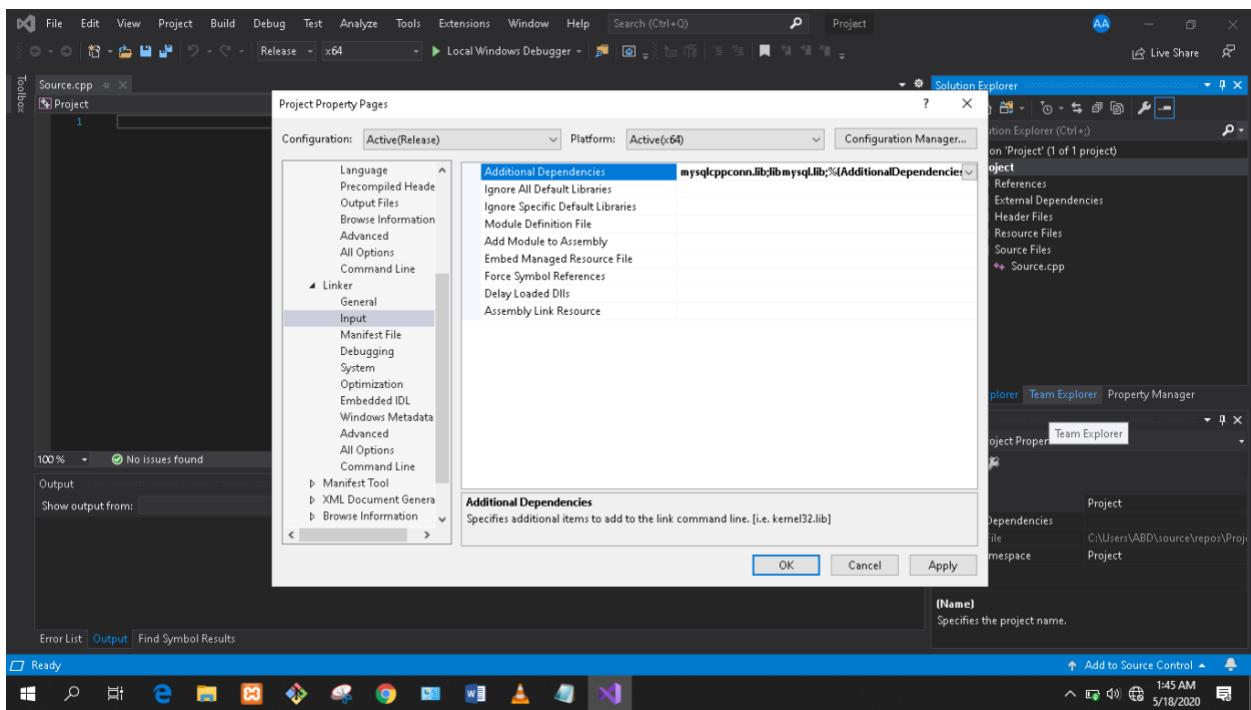
Just write into the blank space.

mysqlcppconn.lib

libmysql.lib



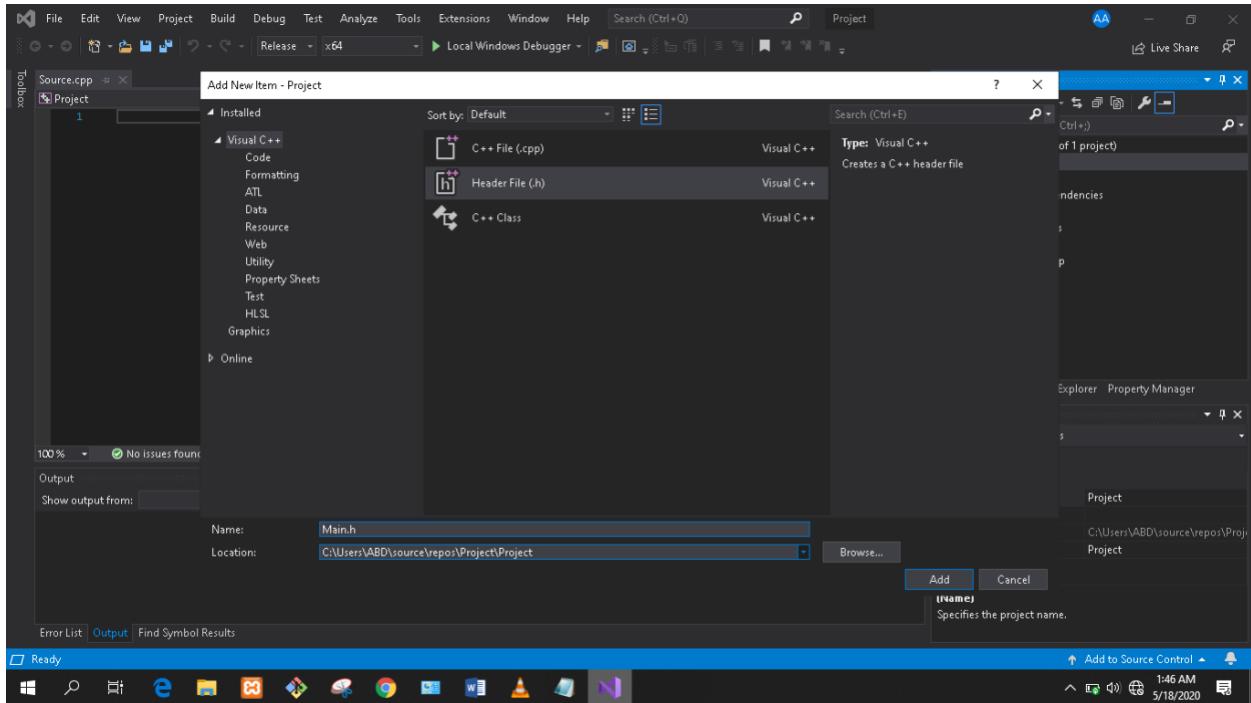
And click ok



And the ok all of configuration is done just a little thing to do.

Now adding all header files.

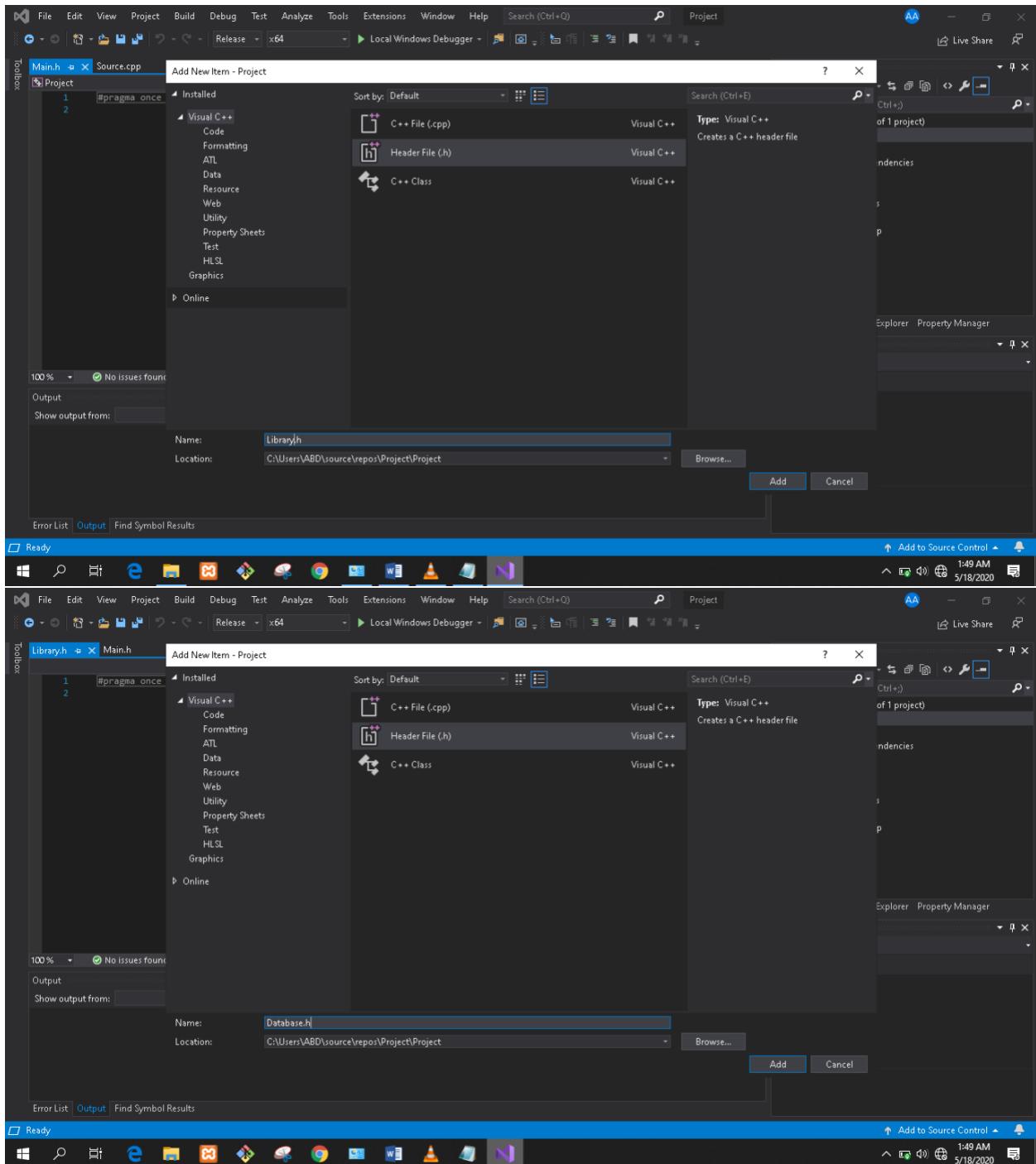
Ctrl+Shift+A and click on Header File (.h)



And type Main.h in name location

And click Add

Similarly add Library.h and Database.h



Now copy all the code for the files that project we have given to you

Copy the files into their cross pending files.

After copying the files.

The screenshot shows the Microsoft Visual Studio IDE interface. The top menu bar includes File, Edit, View, Project, Build, Debug, Test, Analyze, Tools, Extensions, Window, Help, and Search (Ctrl+Q). The toolbar below has icons for New, Open, Save, Print, and others. The status bar at the bottom shows "100% No issues found" and "Ln:8 Ch:1 TABS CRLF".

The Solution Explorer on the right lists the project structure:

- Project (selected)
- References
- External Dependencies
- Header Files
 - Database.h
 - Library.h
 - Main.h
- Resource Files
- Source Files
 - Source.cpp

The main code editor window displays the following C++ code in Source.cpp:#include "Main.h"

int main(void)
{
 Run run;
}

The screenshot shows the Microsoft Visual Studio IDE interface. The top menu bar includes File, Edit, View, Project, Build, Debug, Test, Analyze, Tools, Extensions, Window, Help, and Search (Ctrl+Q). The toolbar below has icons for New, Open, Save, Print, and others. The status bar at the bottom shows "100% No issues found" and "Ln:96 Ch:3 TABS CRLF".

The Solution Explorer on the right lists the project structure, identical to the first screenshot.

The main code editor window displays the following C++ code in Source.cpp:#pragma once

#include "Library.h"

class Run
{
public:
 Run()
 {
 while (true)
 {
 system("cls");
 cout << "Enter 1 For Create Account. " << endl;
 cout << "Enter 2 For Log in. " << endl;
 cout << "Enter 3 For Exit. " << endl;
 char option;
 cin >> option;
 switch (option)
 {
 case '1':
 library.CreateAccount();
 }
 }
 }
}

Microsoft Visual Studio IDE interface showing a C++ project named 'Project'. The Solution Explorer shows files: Database.h, Library.h, Main.h, and Source.cpp. The Source code editor displays the following code:

```
1 #pragma once
2
3 #include "Database.h"
4
5 class Library
6 {
7     Database db;
8     string host = "tcp://127.0.0.1:3306";
9     string userName = "root";
10    string password = "0987654321";
11    string database = "Library";
12
13 public:
14
15     Library()
16     {
17         do
18         {
19             cout << "Enter user name of server : ";
20             getline(cin, userName);
21             cout << "Enter password of server : ";
22             getline(cin, password);
23         } while (db.connect(host, userName, password) != 1);
24     }
25 }
```

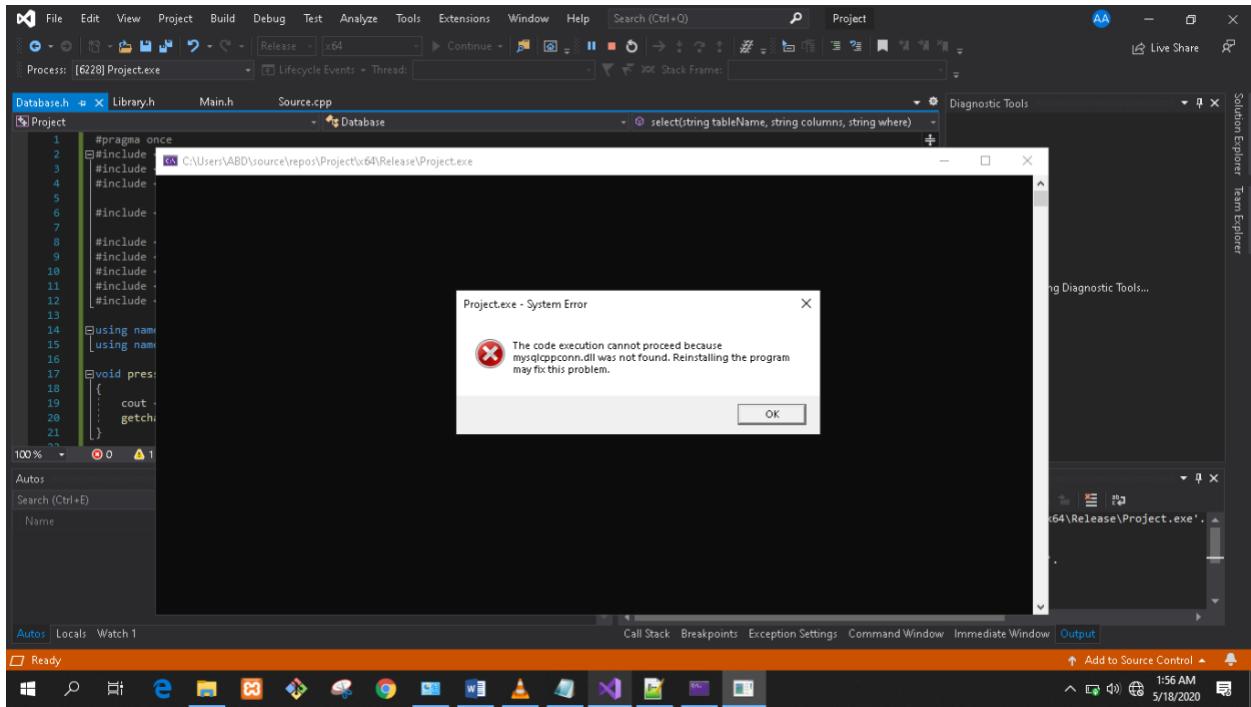
The Output window is empty. The status bar shows 'In: 63 Ch: 14 Col: 20 TABS CRLF'.

Microsoft Visual Studio IDE interface showing a C++ project named 'Project'. The Solution Explorer shows files: Database.h, Library.h, Main.h, and Source.cpp. The Source code editor displays the following code:

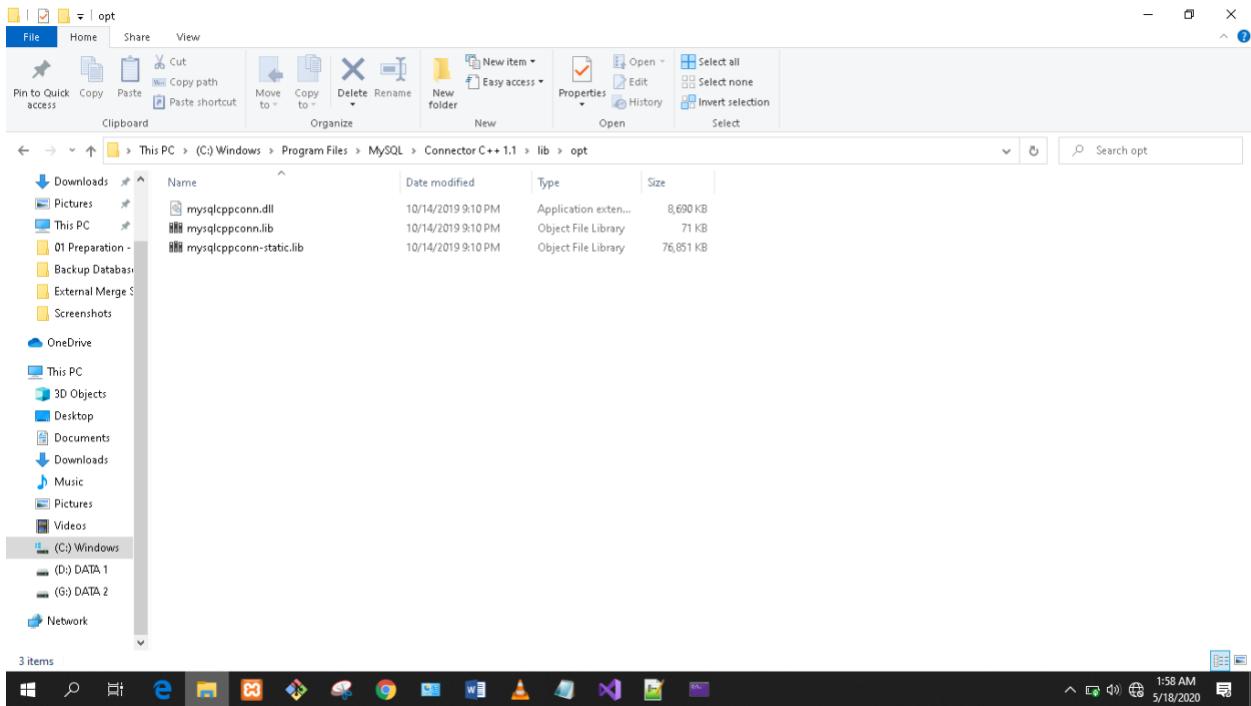
```
1 #pragma once
2
3 #include <fstream>
4 #include <iostream>
5 #include <vector>
6
7 #include <mysql_connection.h>
8
9 #include <cppconn/connection.h>
10 #include <cppconn/driver.h>
11 #include <cppconn/exception.h>
12 #include <cppconn/resultset.h>
13 #include <cppconn/statement.h>
14
15 using namespace std;
16 using namespace sql;
17
18 void pressAnyKey()
19 {
20     cout << "Press any key to continue ... ";
21     getchar();
22 }
23
24 class Database
25 {
26     ...
27 }
```

The Output window is empty. The status bar shows 'In: 291 Ch: 45 Col: 48 TABS CRLF'.

Just run the program it will generate an error.

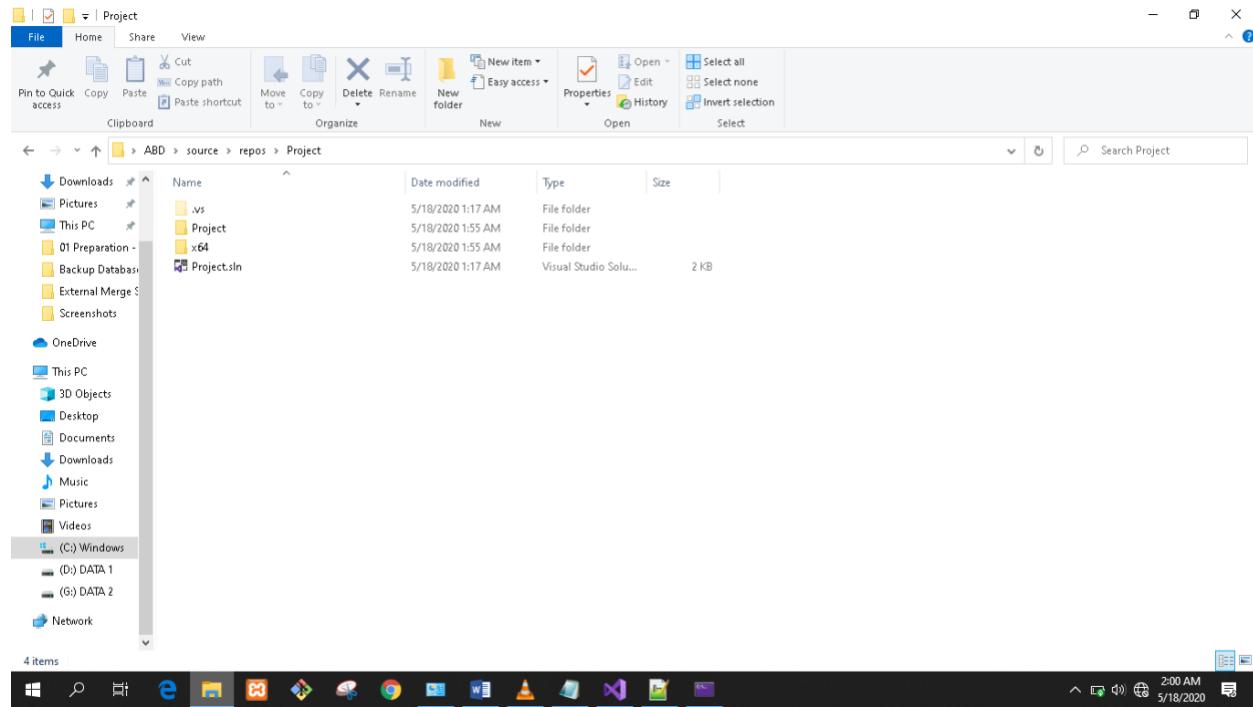


To fix this go to the location C:\Program Files\MySQL\Connector C++ 1.1\lib\opt

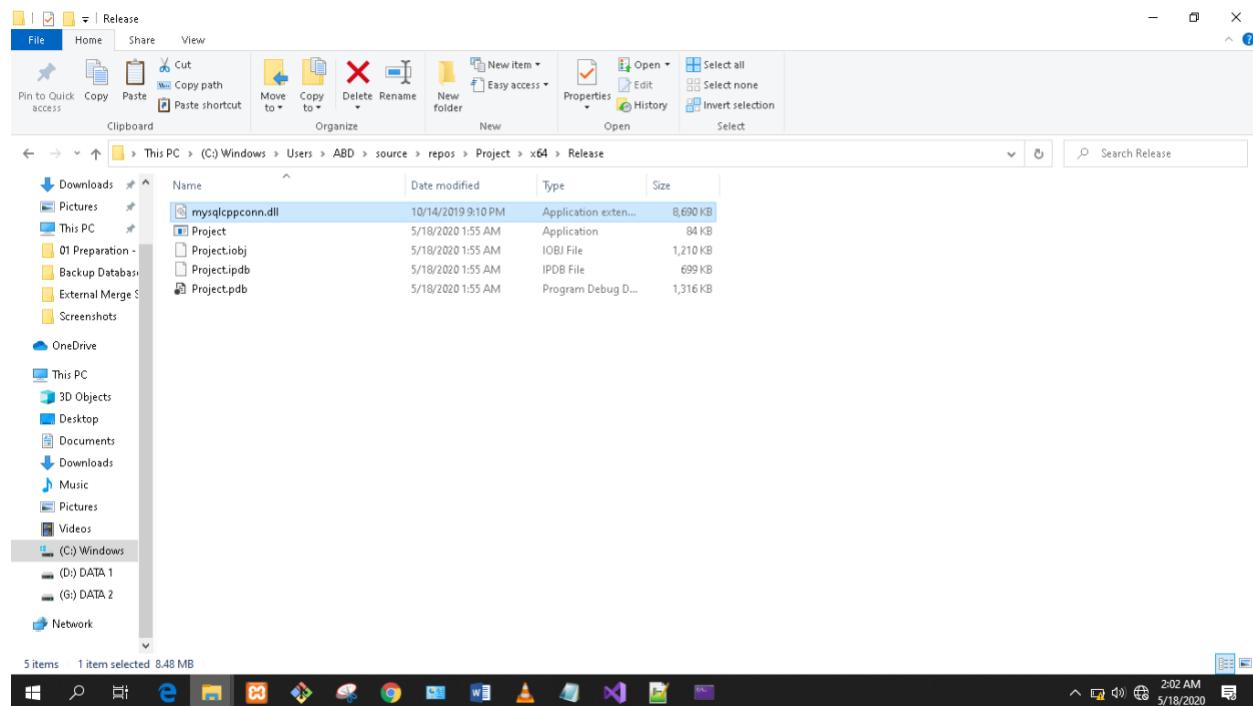


Copy the mysqlcppconn.dll and paste it into your project folder x64\release\

Like my project folder C:\Users\ABD\source\repos\Project



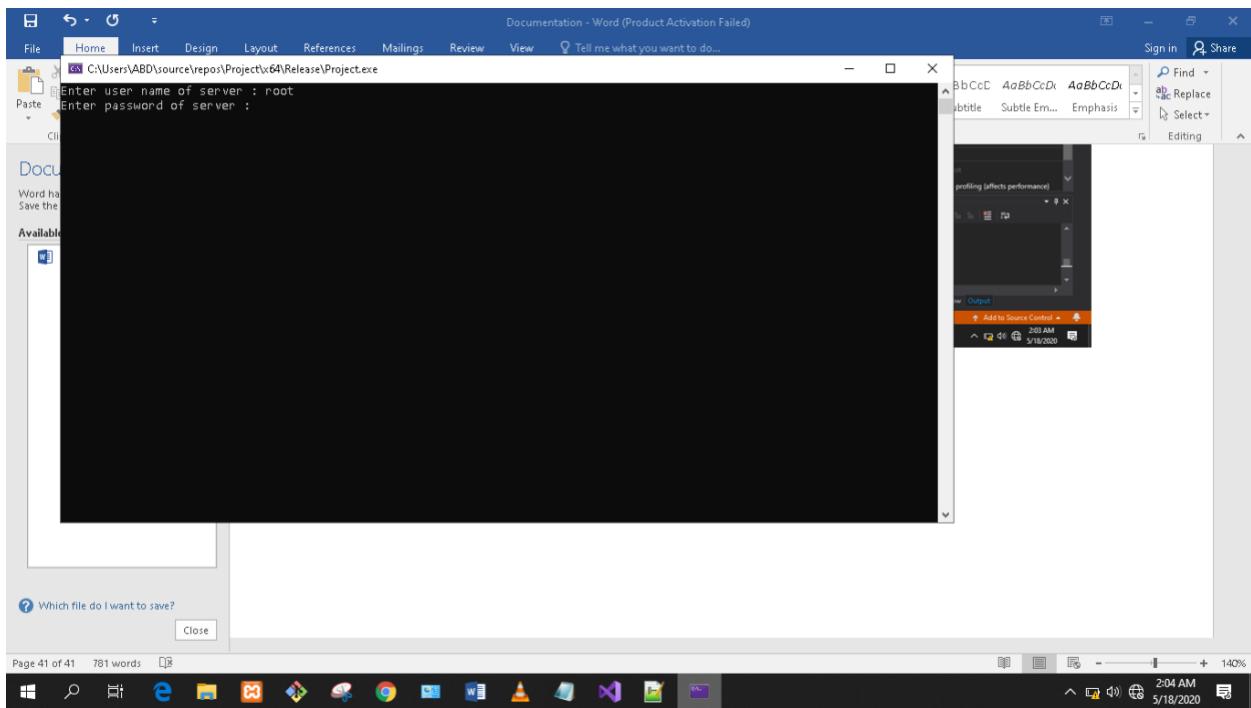
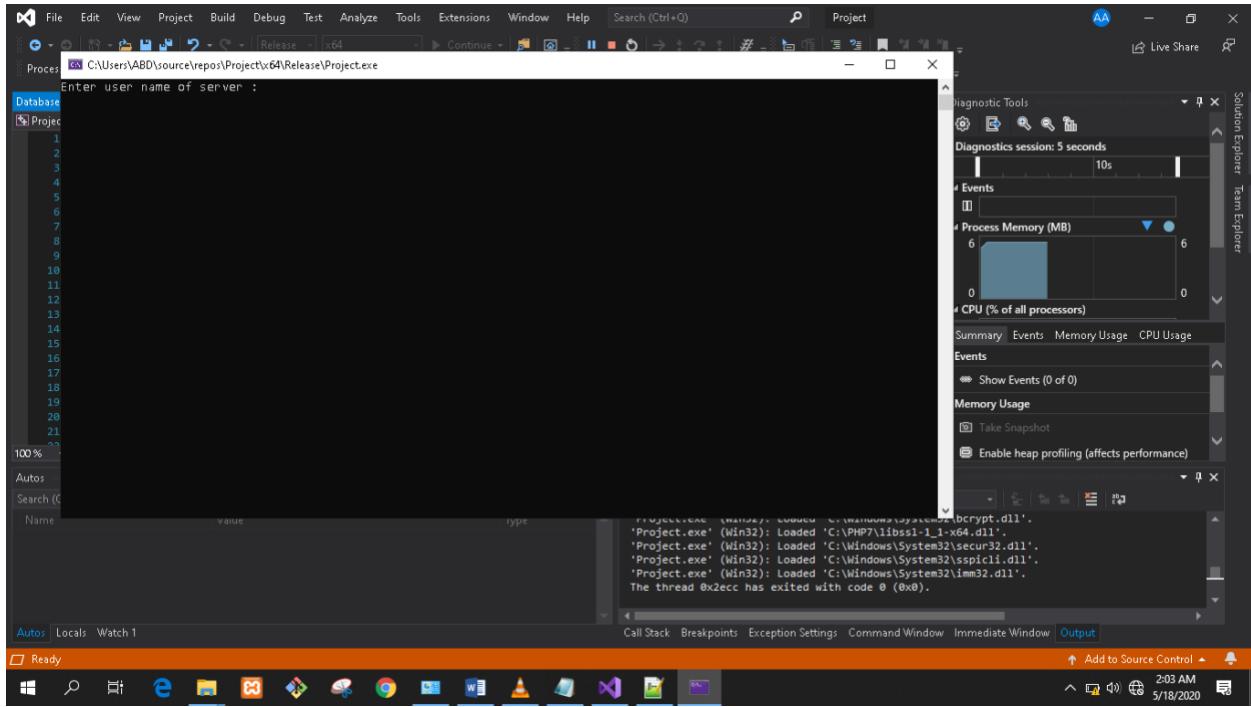
Now copy the file mysqlcppconn.dll into x64\release\ folder



After copy this dll just run the program and everything will be done.

It will ask your server user name

And then password



And your program will be run easily

If you are not connected with your host

tcp://127.0.0.1:3306/

then in start button search for services and find MySQL if it is stopped just right click on it and start it then run the program it will execute well.

