Name of Student:

Expt No: _____ **Roll No:** _____ **Batch:** _____

Title of Experiment: _____

Date of Performance: _____ **Date of Submission:** _____

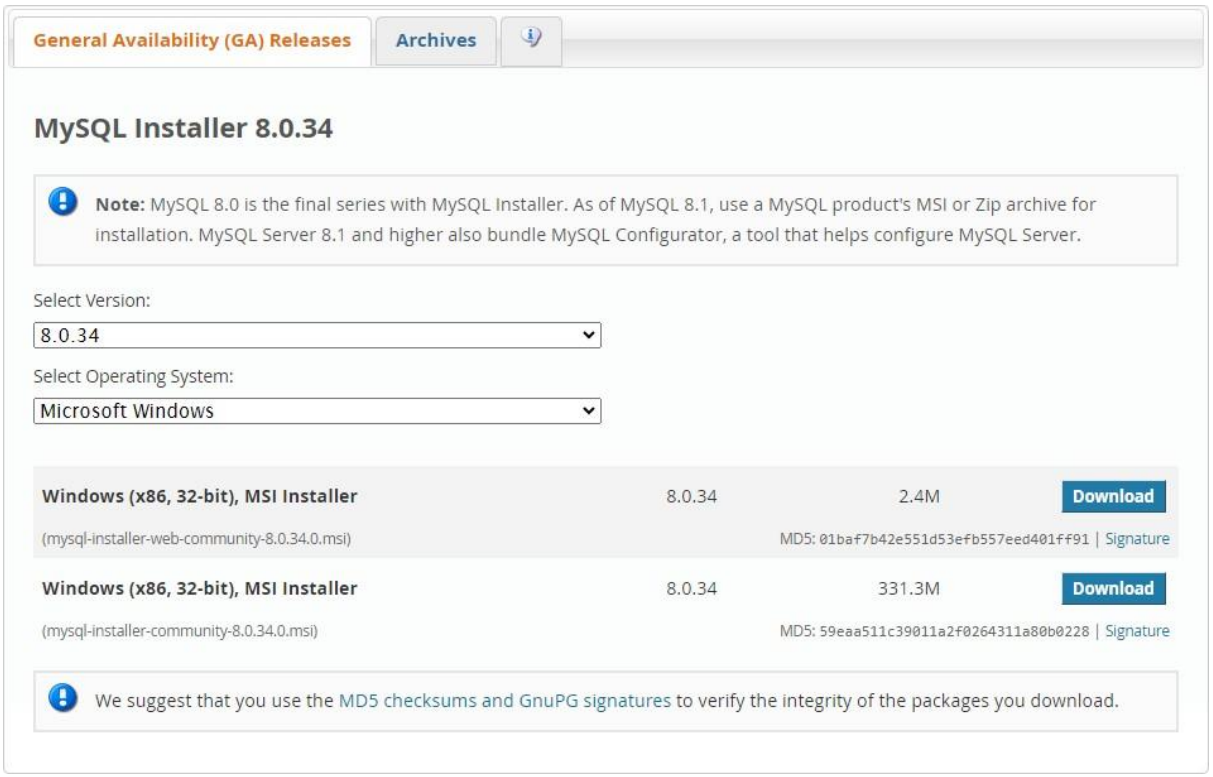
Marks:	Performance in Experiments (5)		
	Journal Submission (5)		**Sign:**
	Viva-voce (5)		
	Overall Marks		

AIM: MySQL Installation on Windows**.**

In this laboratory session we will learn how to install MySQL on the Windows platform using the MySQL Installer. To Install MySQL you to follow step by step process.

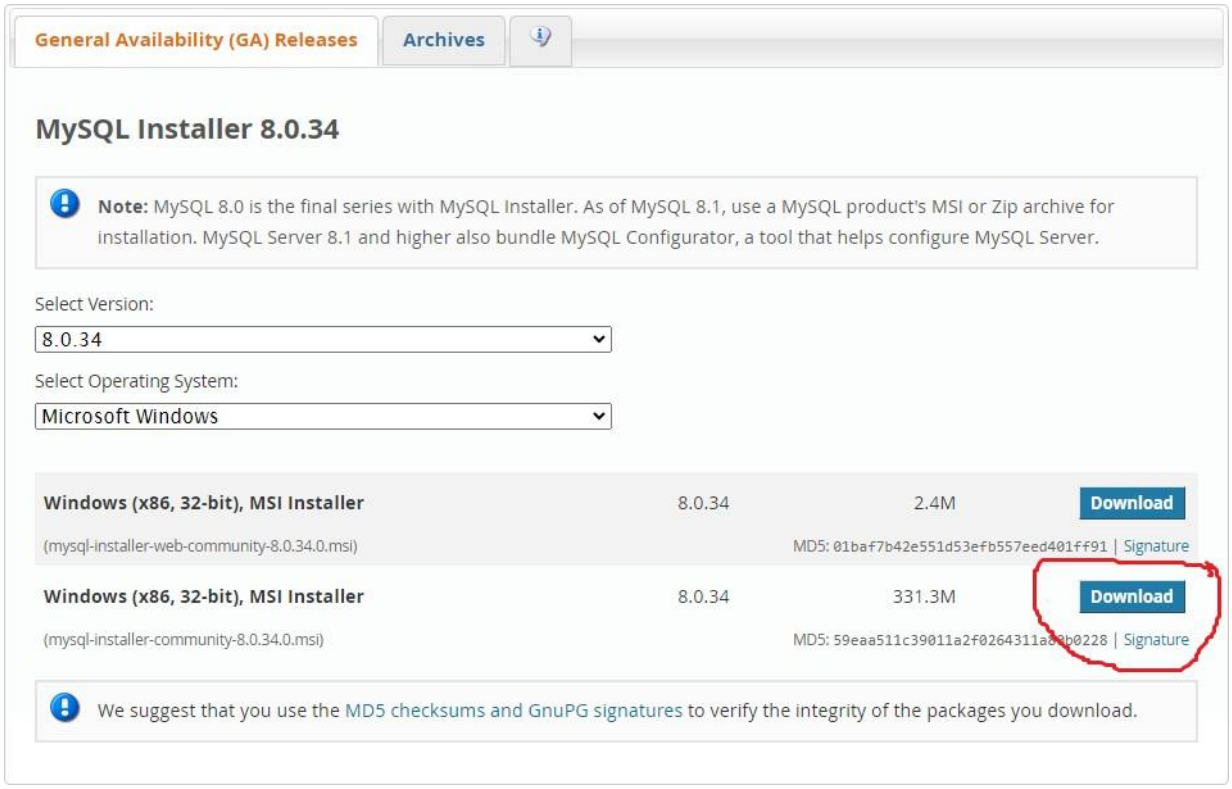
Step 1: Download MySQL. To download MySQL Installer for Windows go to (ctrl + click) following link

https://dev.mysql.com/downloads/installer/

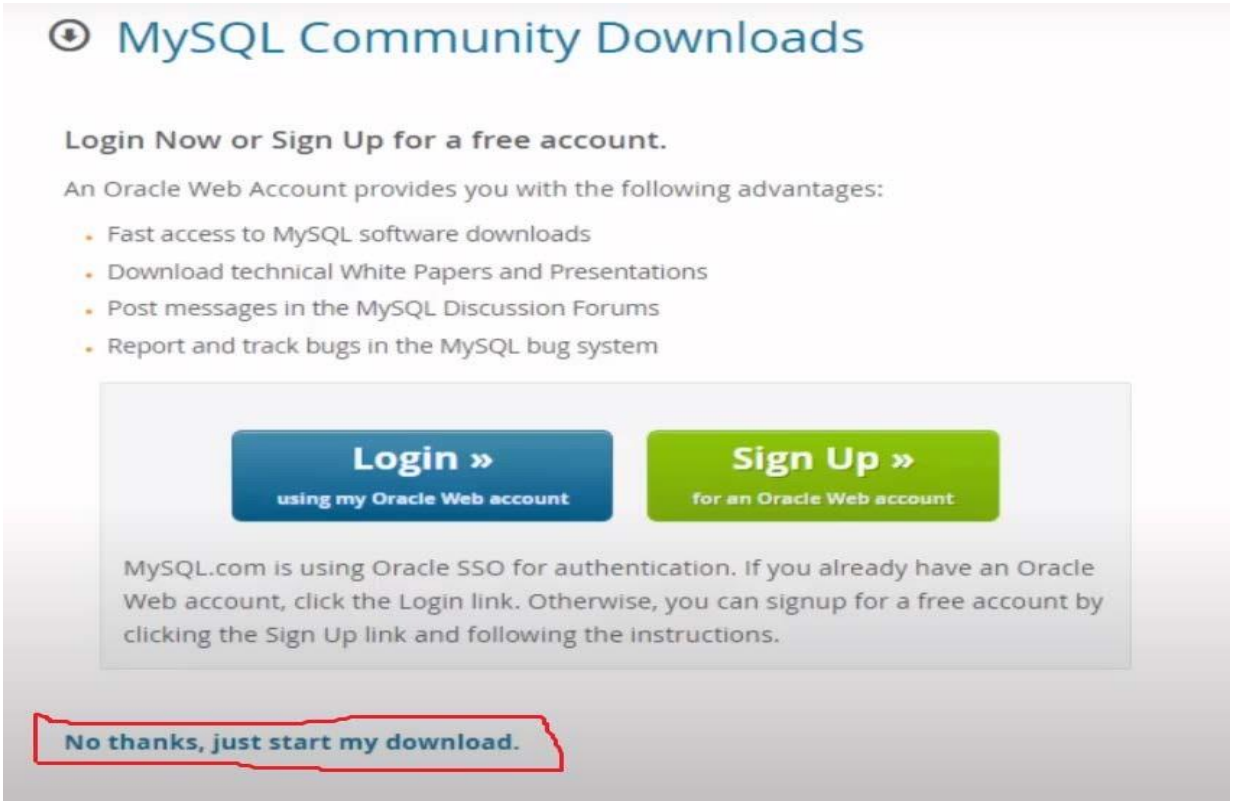


Select mysql-installer-web-community-8.0.34.msi if you have good internet connection, otherwise choose mysql-installer-community-8.0.34.msi.

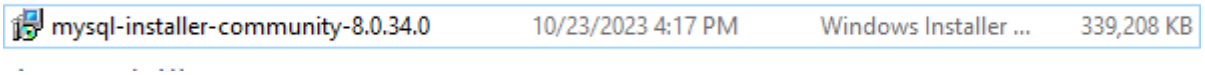
Step 2: Select `mysql-installer-community-8.0.34.msi`



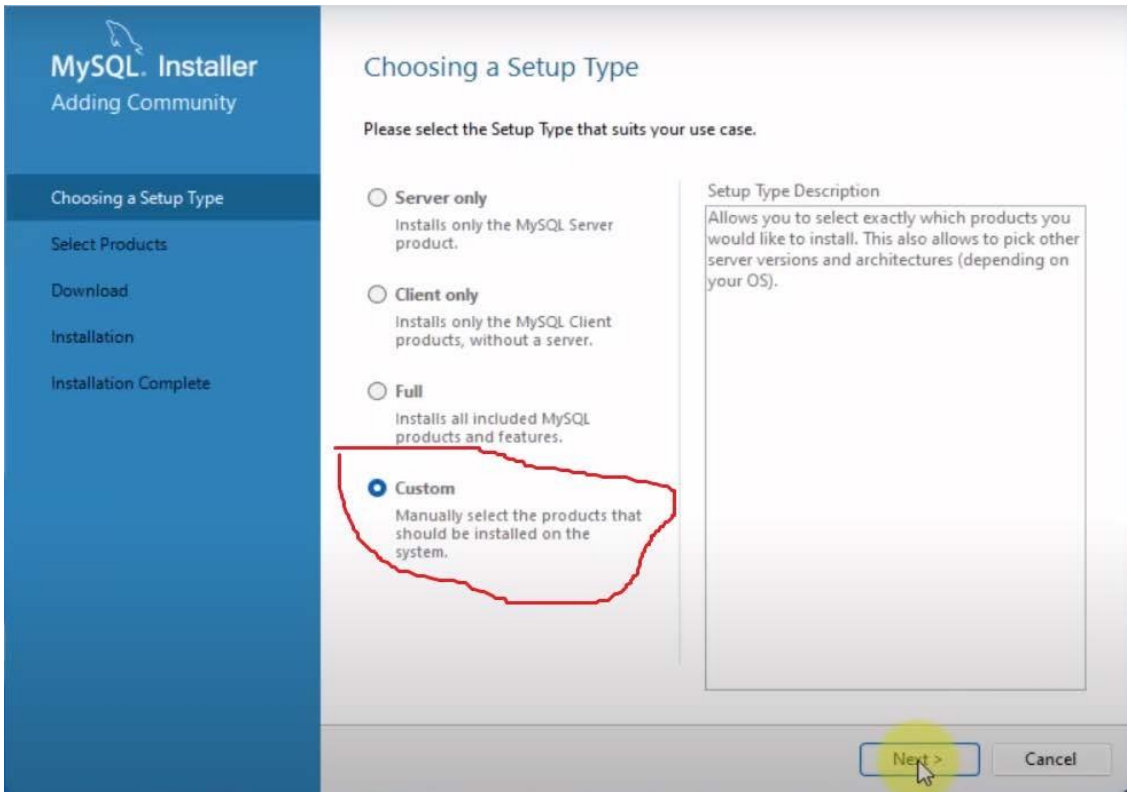
Step 3: Just click on No thanks, just start my download



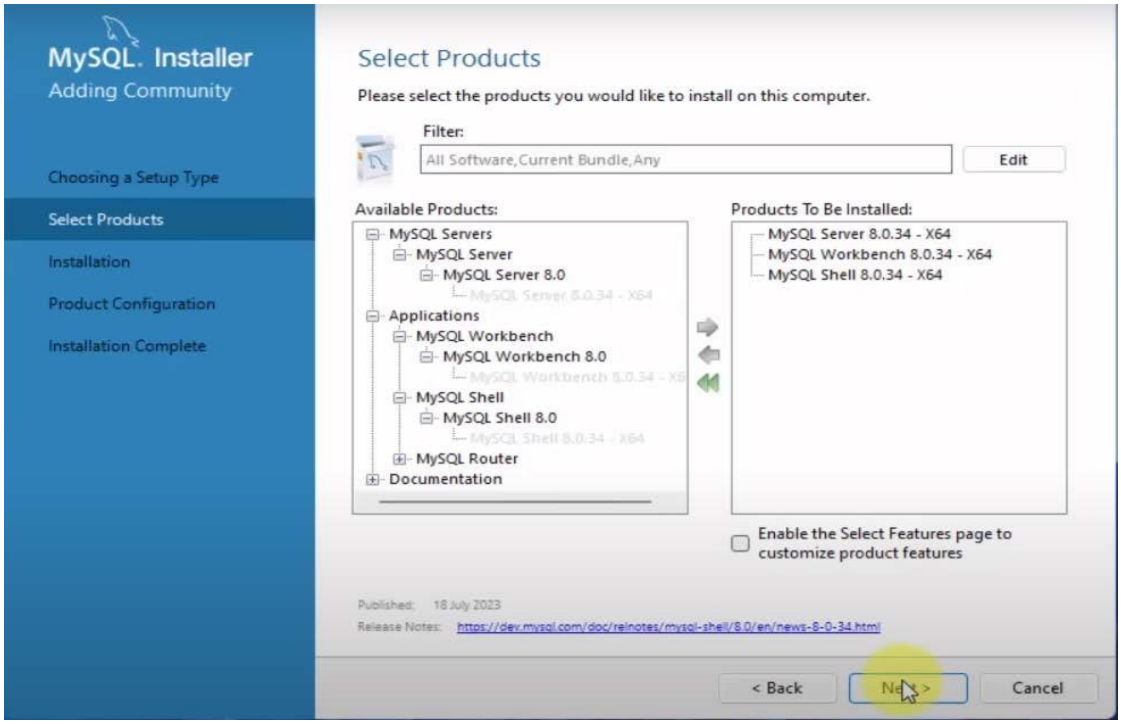
Step 4: After downloading double click the MSI installer .exe file



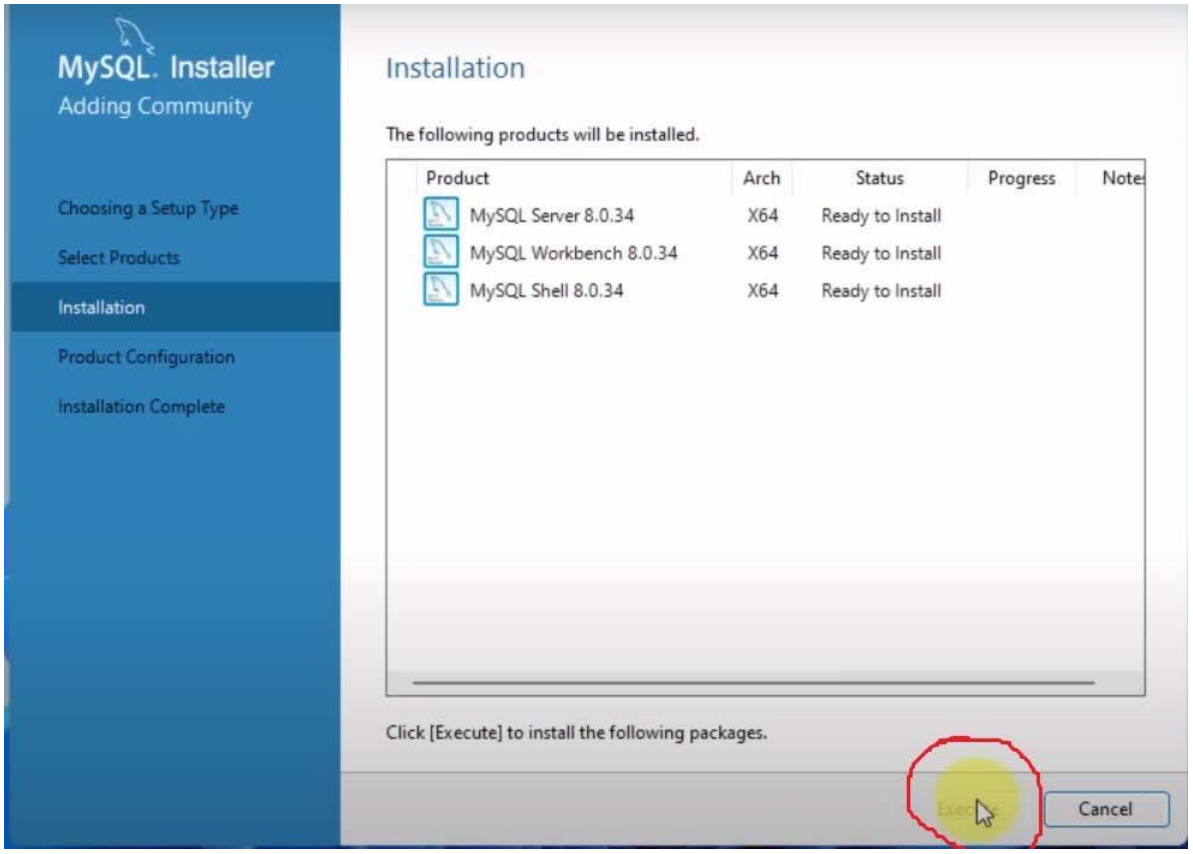
Step 5: Choose setup type- custom and click Next



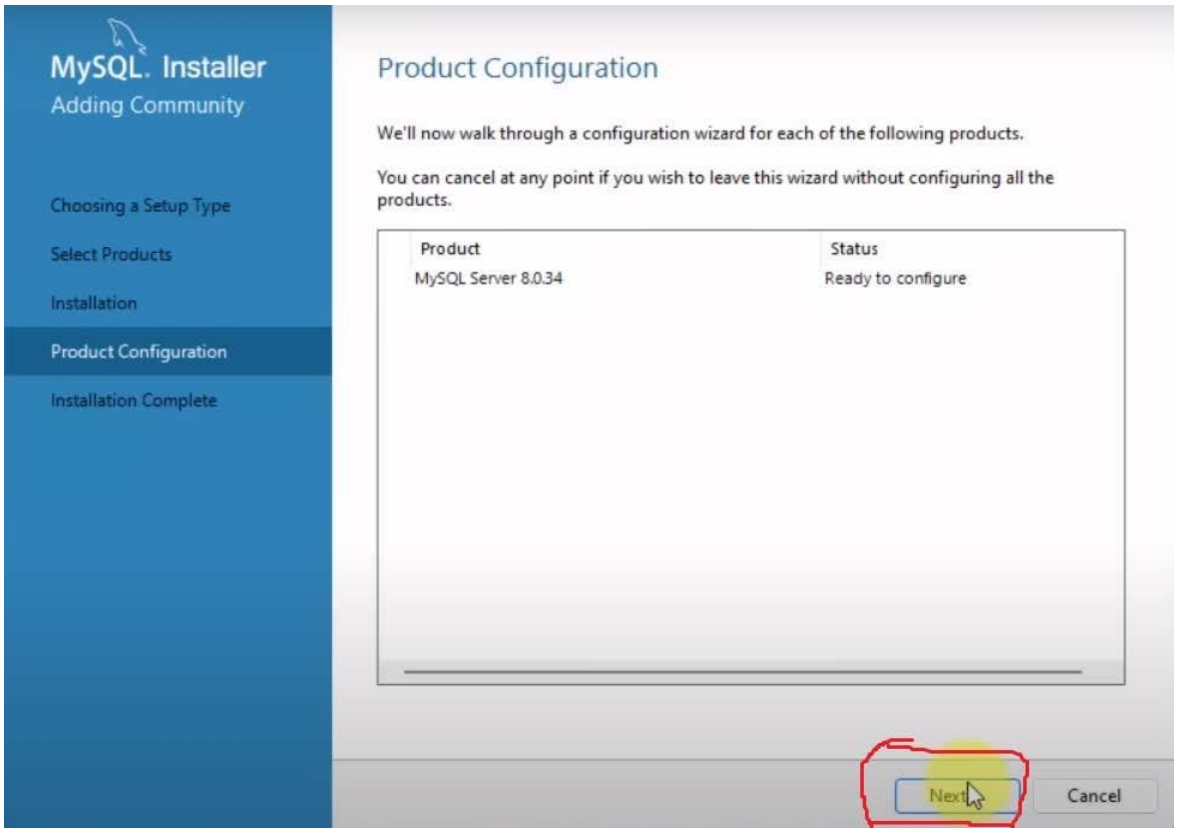
Step 6: Select product and click on Next



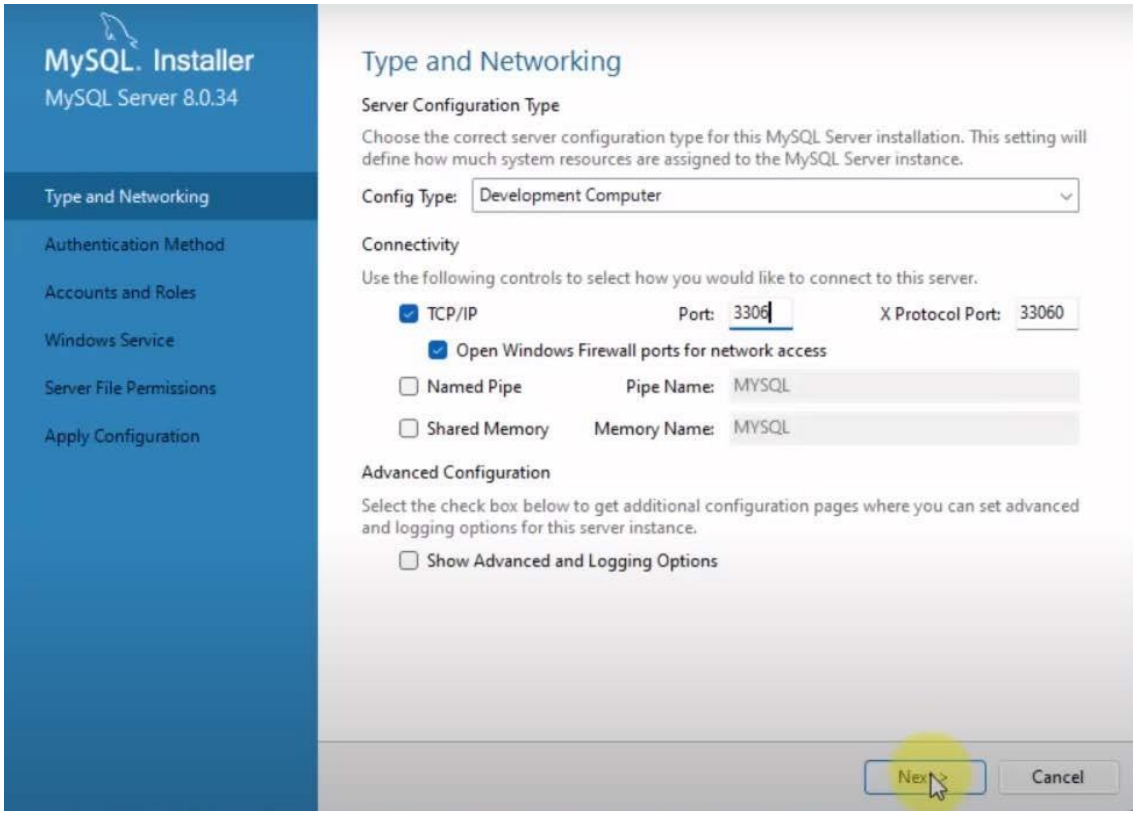
Step 7: Click on Execute



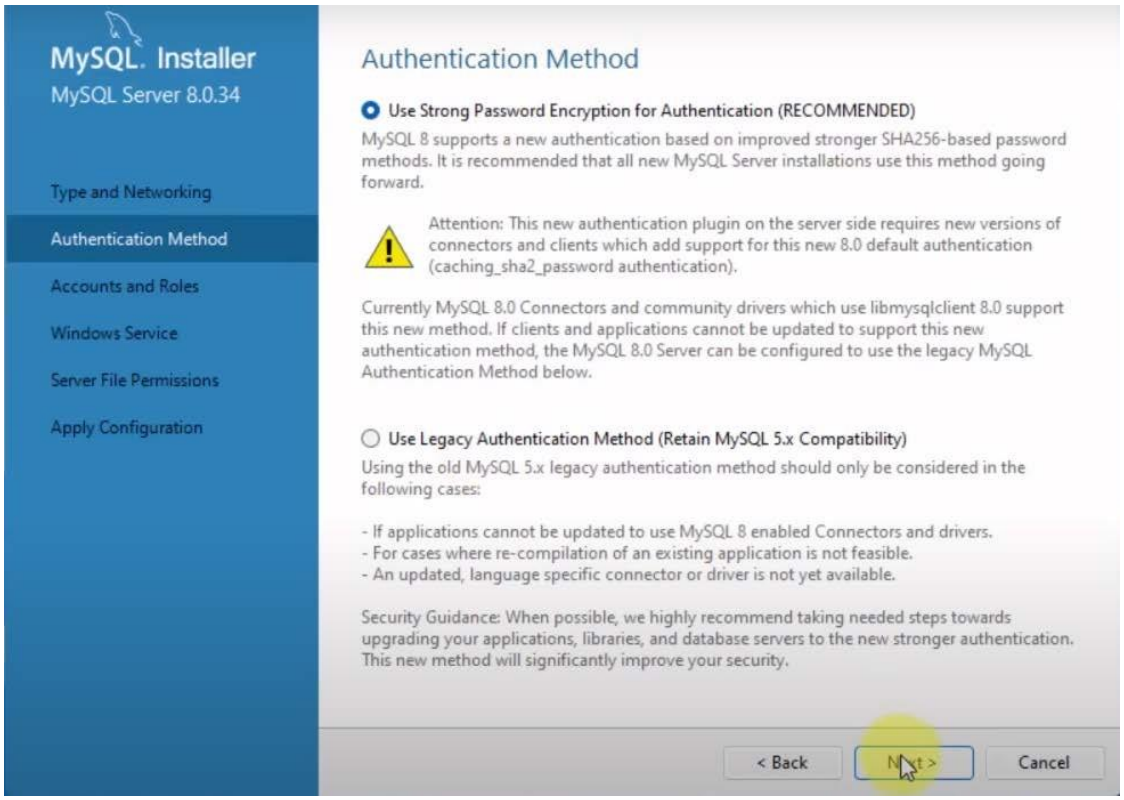
Step 8: Product configuration- click on Next



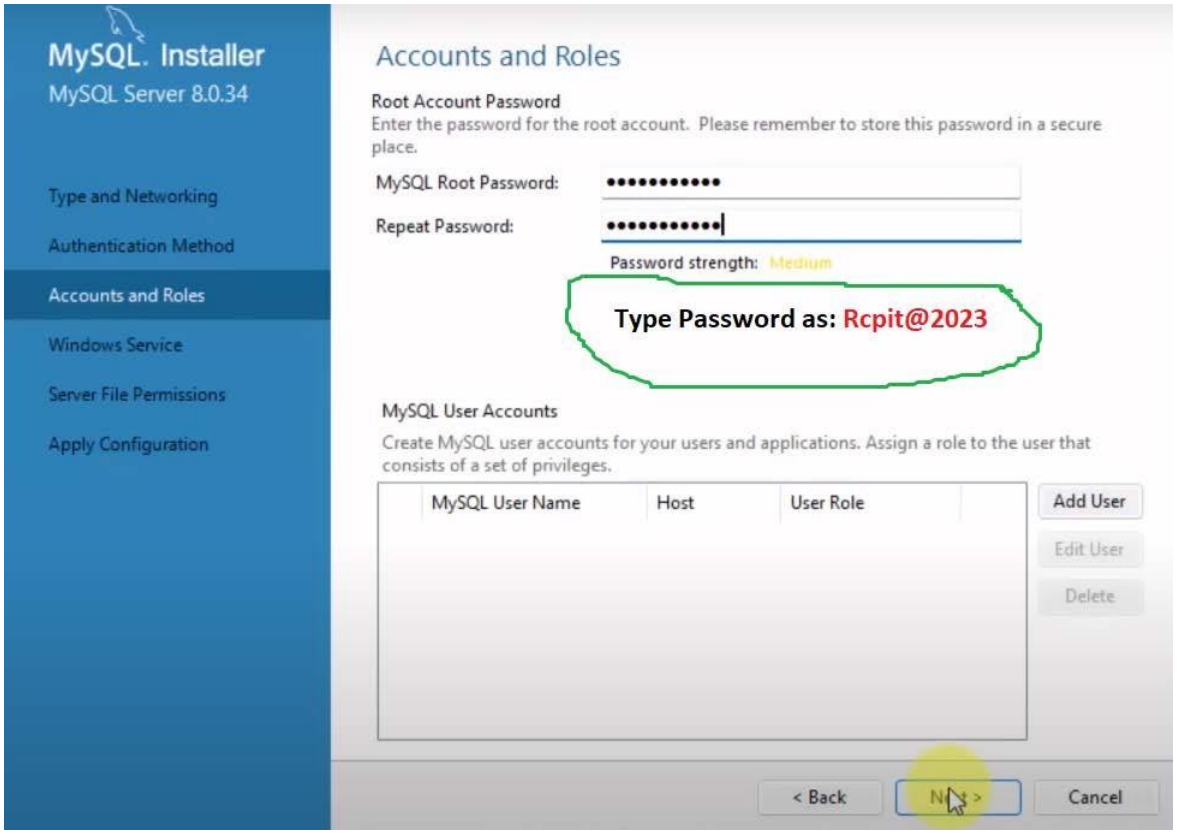
Step 9: Select type and Networking and click Next



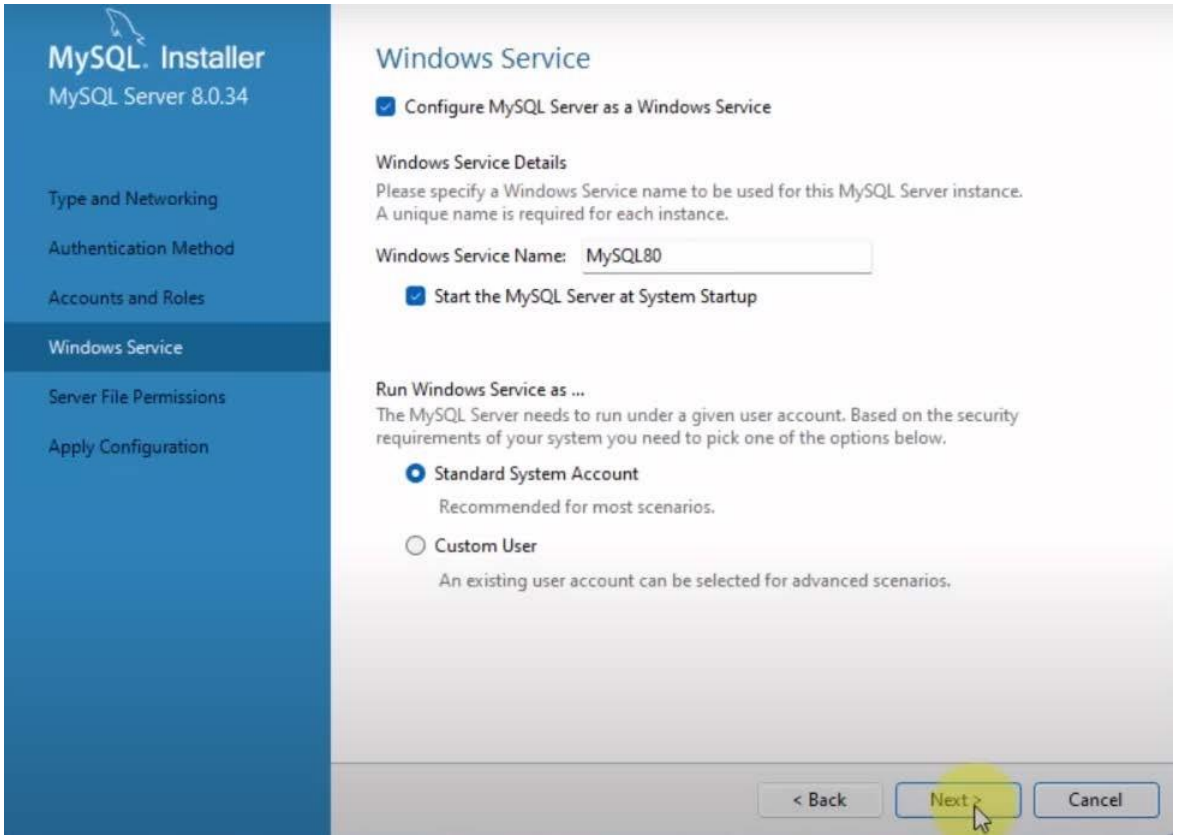
Step 10: Authentication Method- Use strong Password Encryption for Authentication and click Next



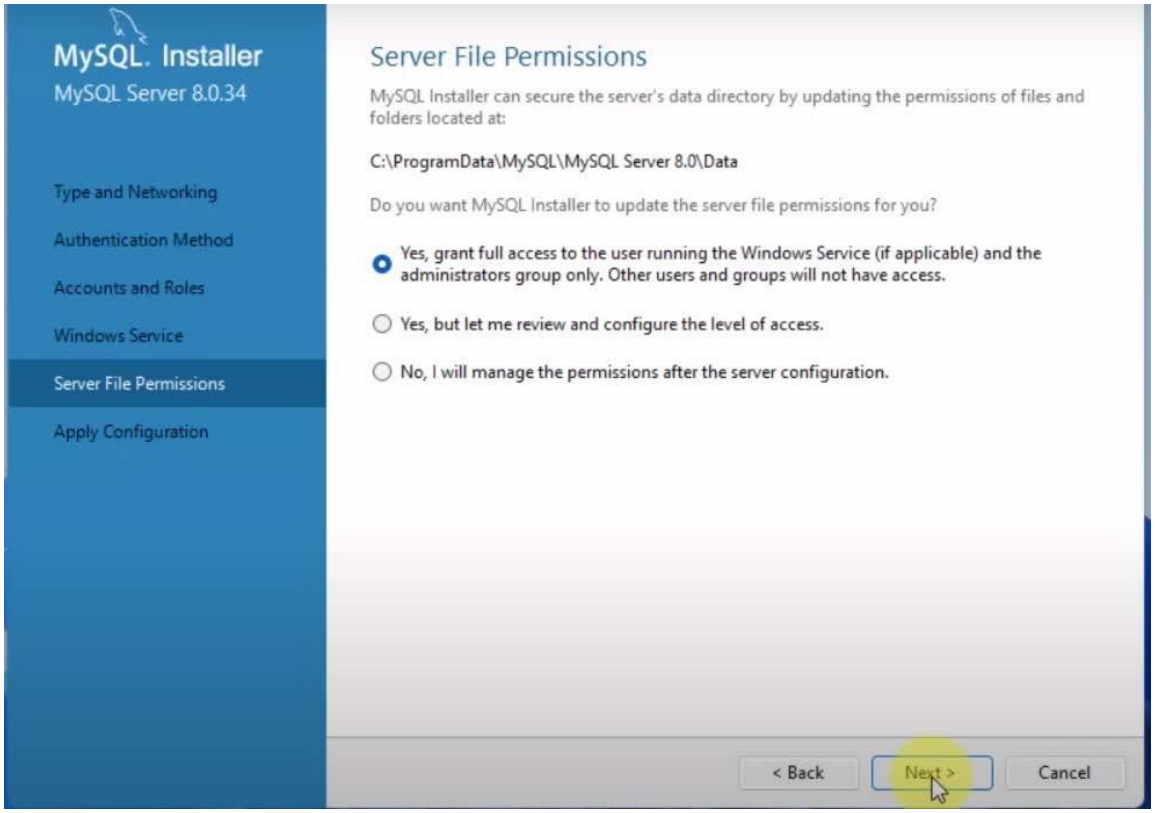
Step 11: Accounts and Roles- Select MySQL Root Password as Rcpit@2023 and click next



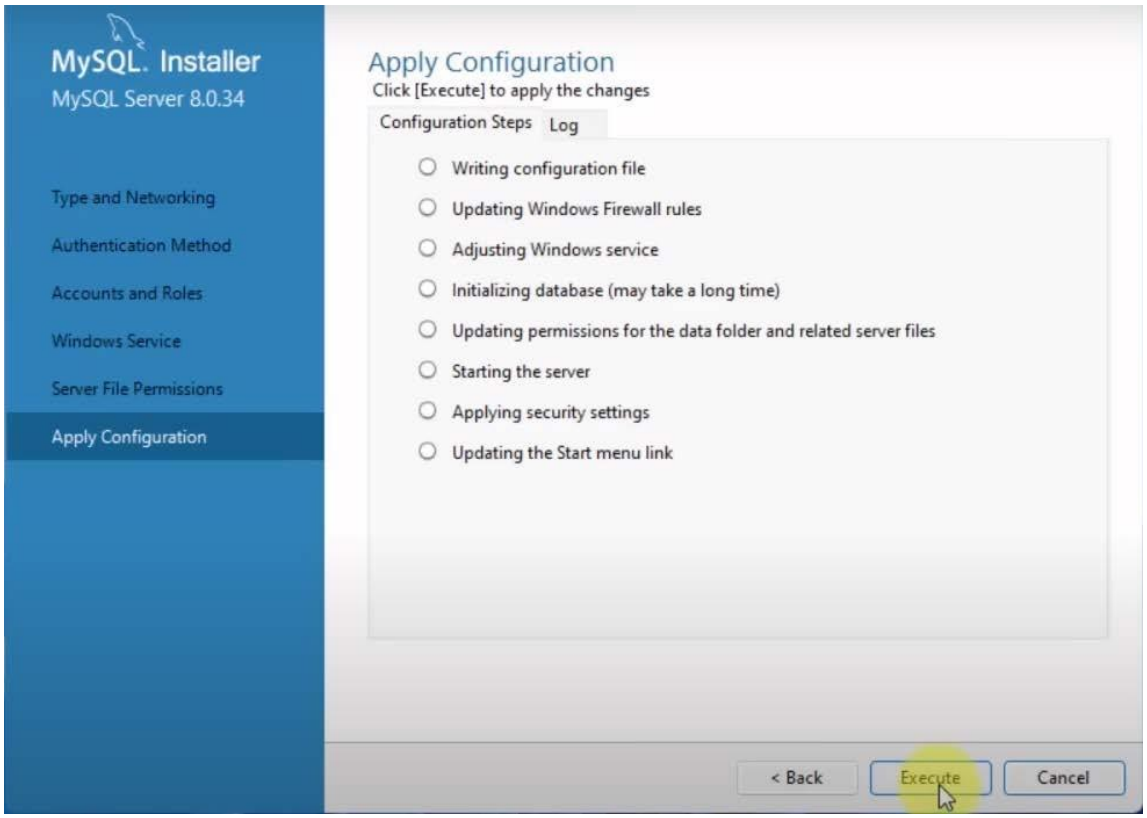
Step 12: Select Windows Service and click Next



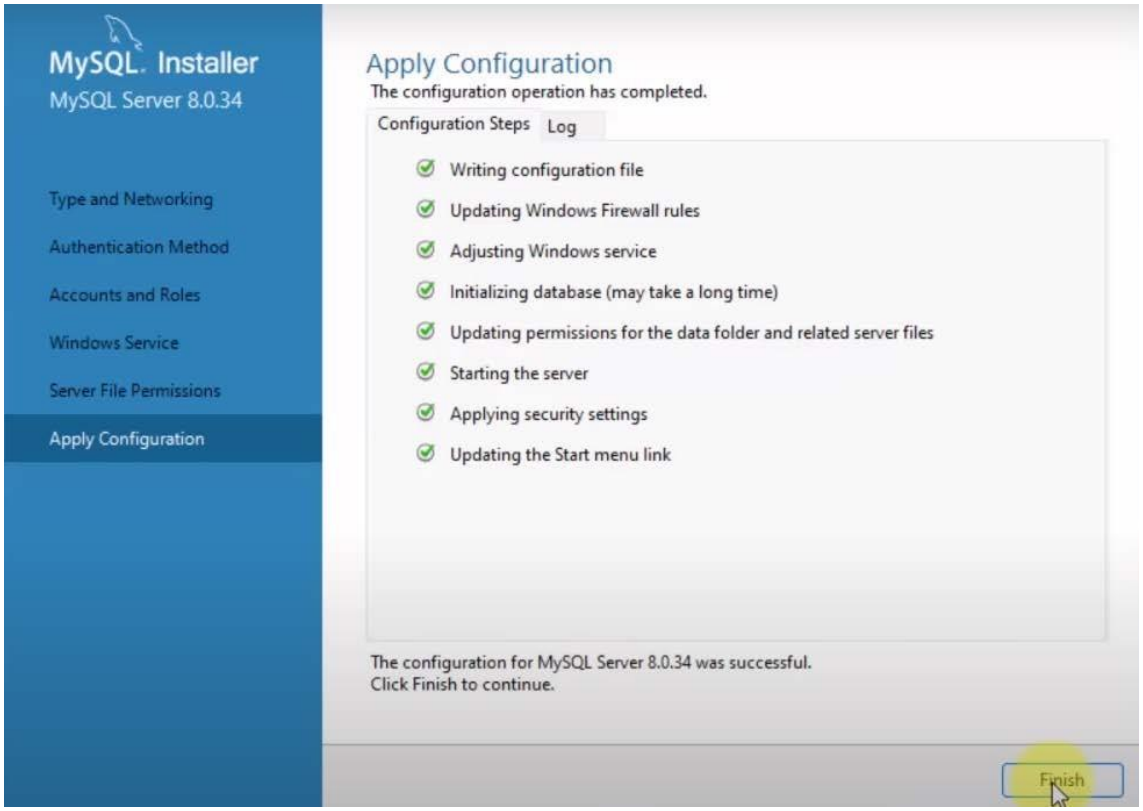
Step 13: Select Server File Permission and click Next



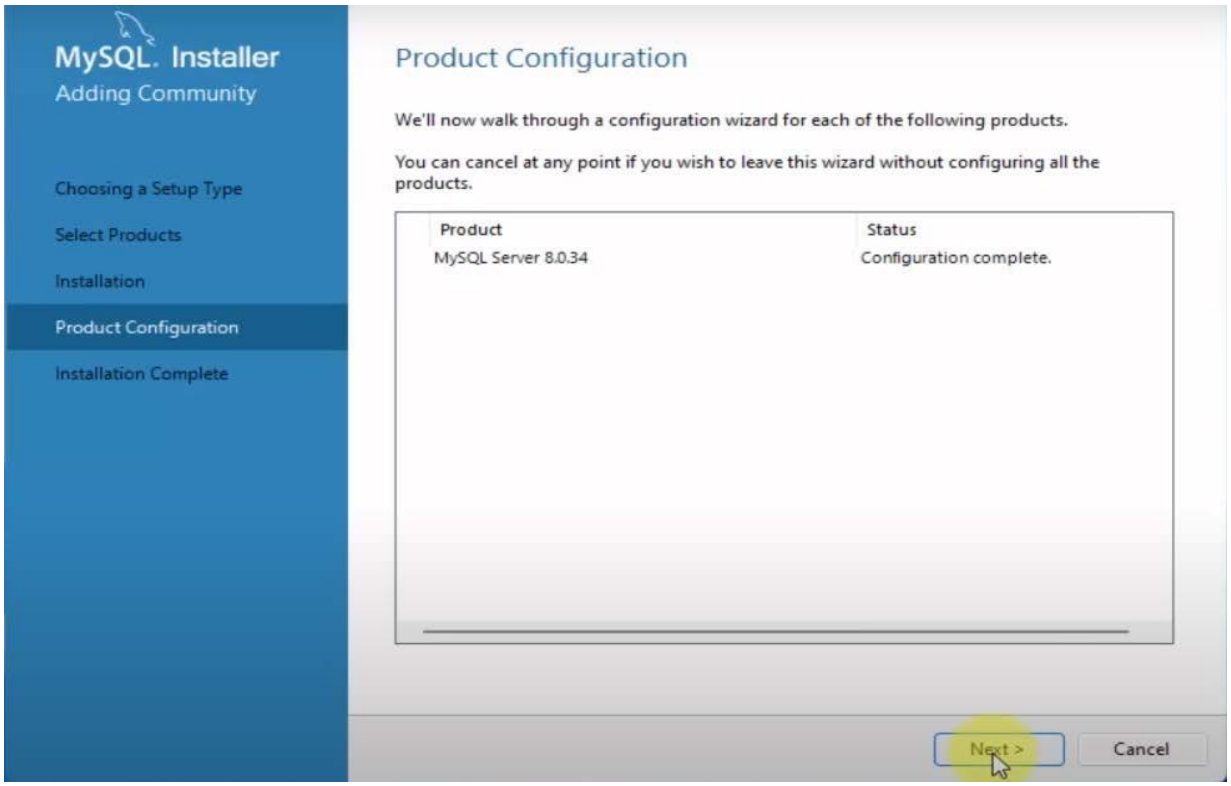
Step 14: Click Execute to apply the configuration



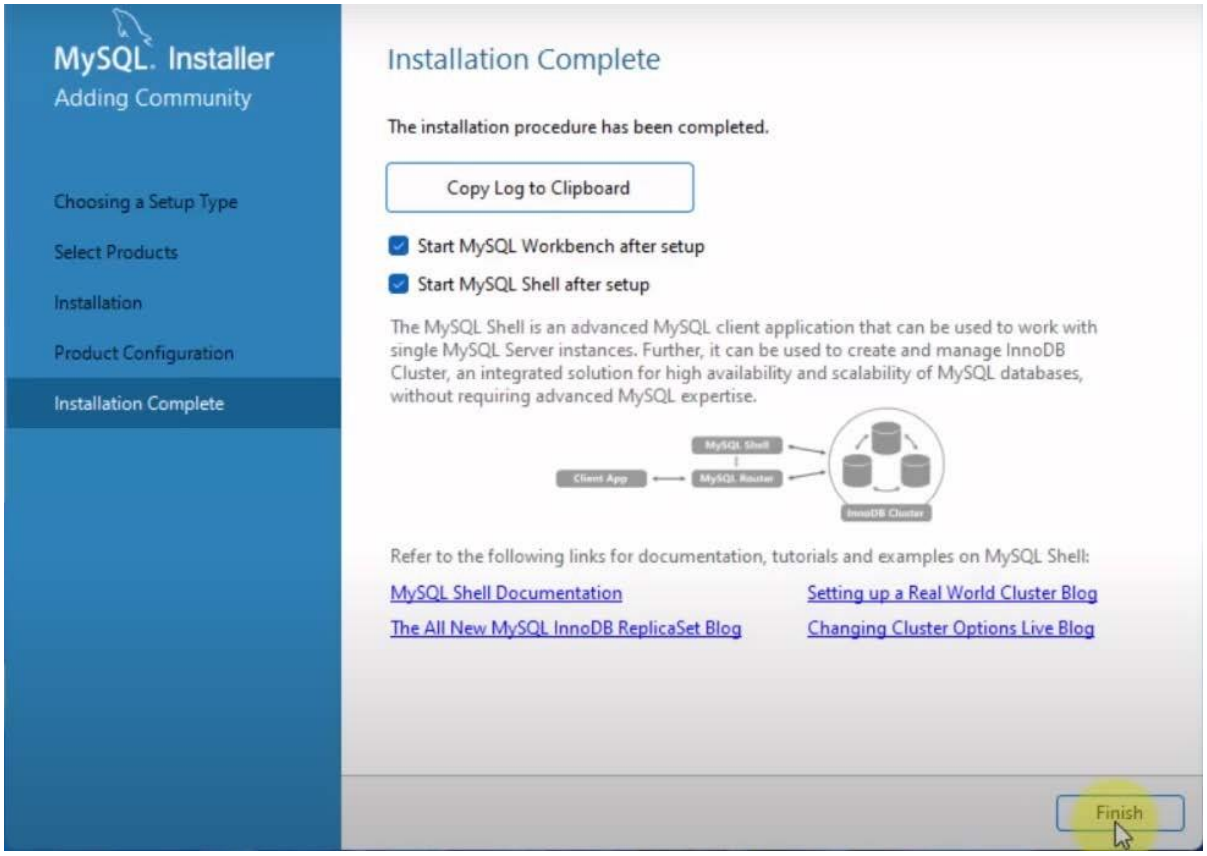
Step 15: After successful configuration click on Finish



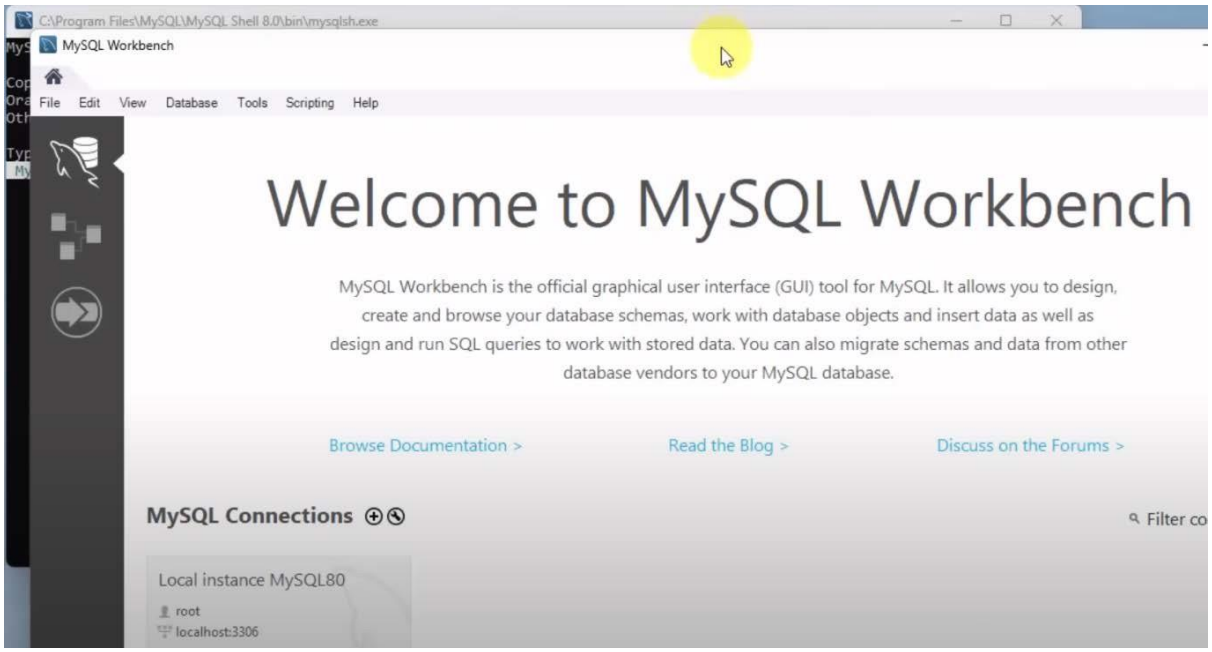
Step 16: Product configuration click on Next



Step 17: Once Installation completed click on Finish

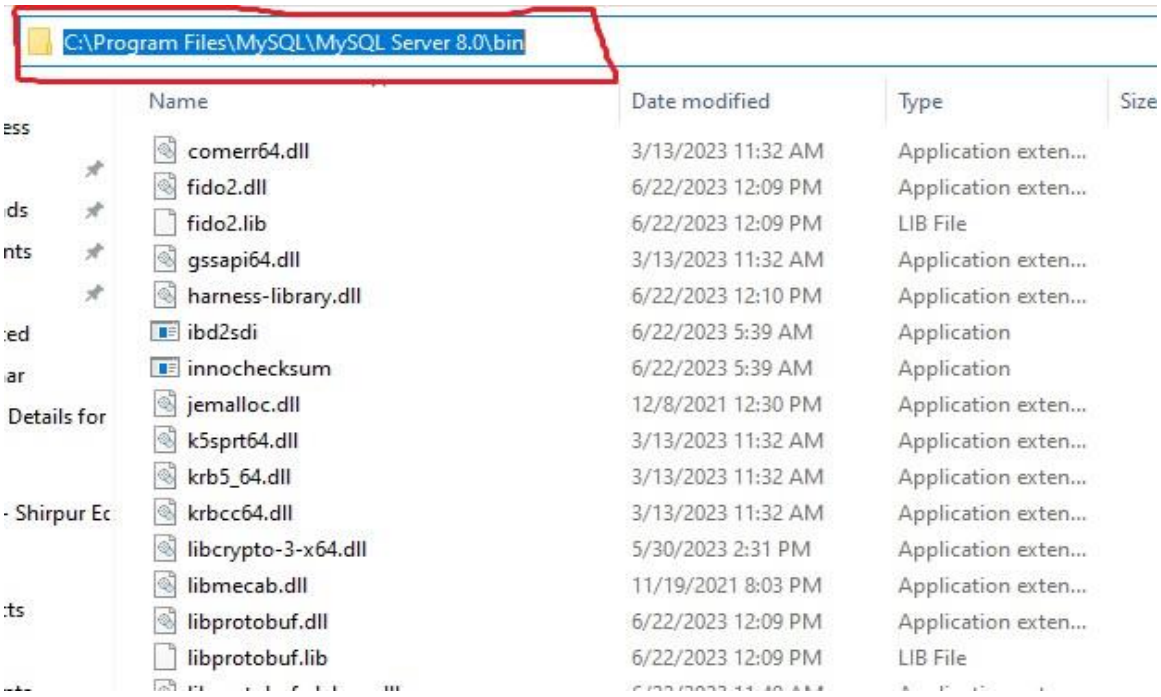


Step 18: Once the MySQL Shell and Workbench started set up the path and for that use step 19 and above

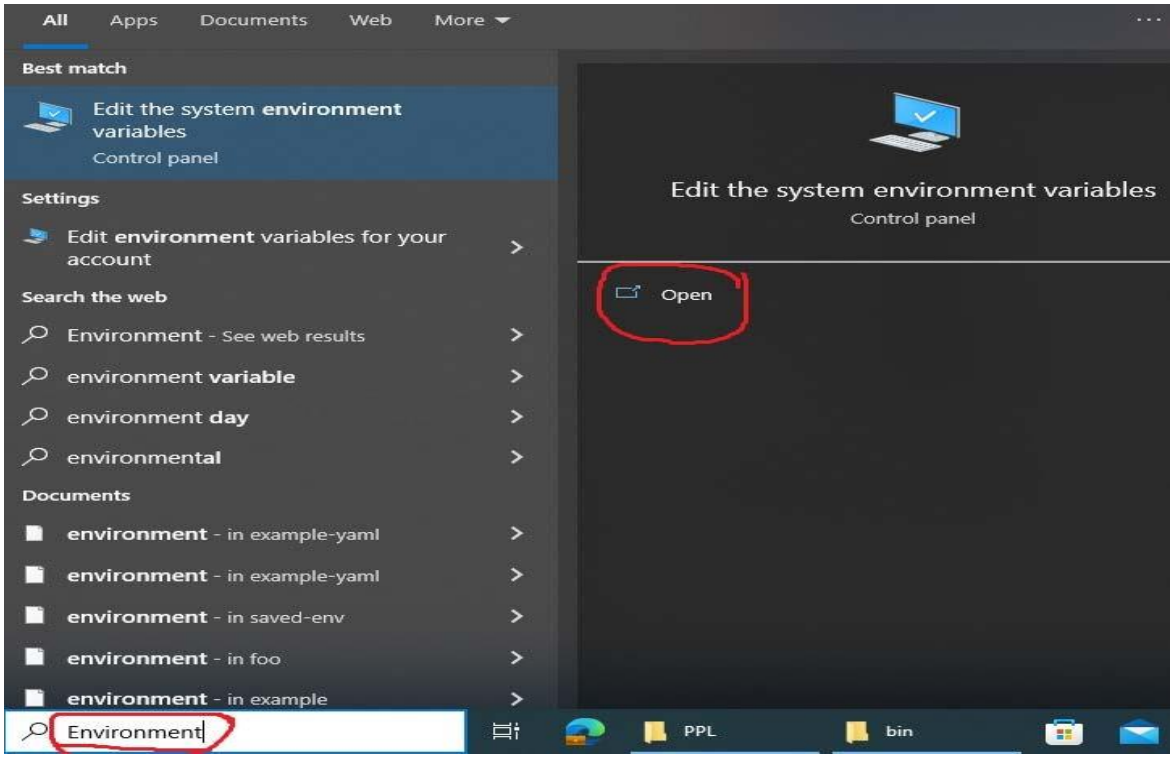


Step 19: Go to C drive -> Program Files -> MySQL -> MySQL Server 8.0 ->bin

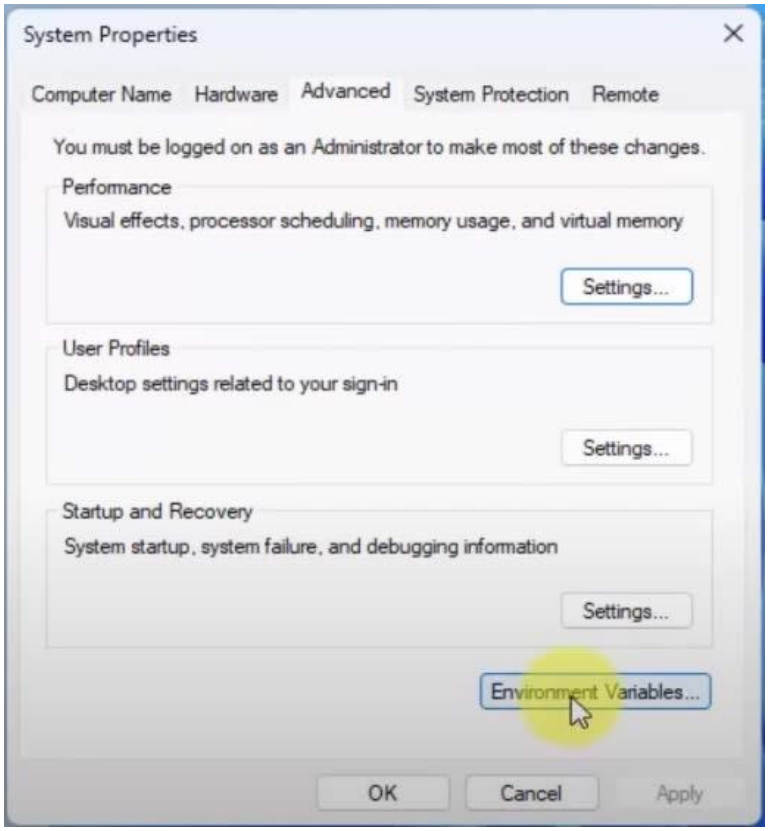
Copy this path



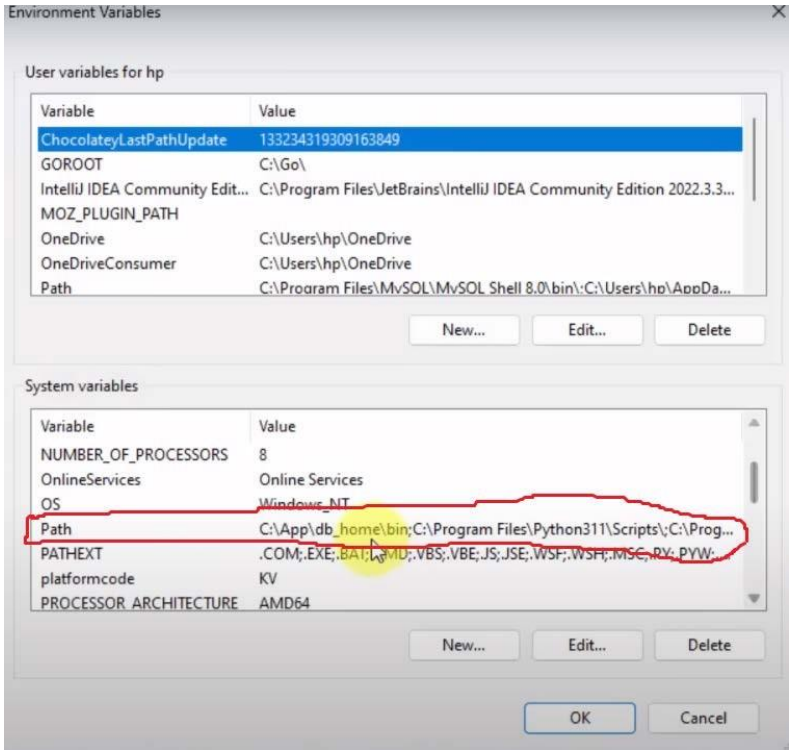
Step 20: Go to Start and Type Environment and click on Open



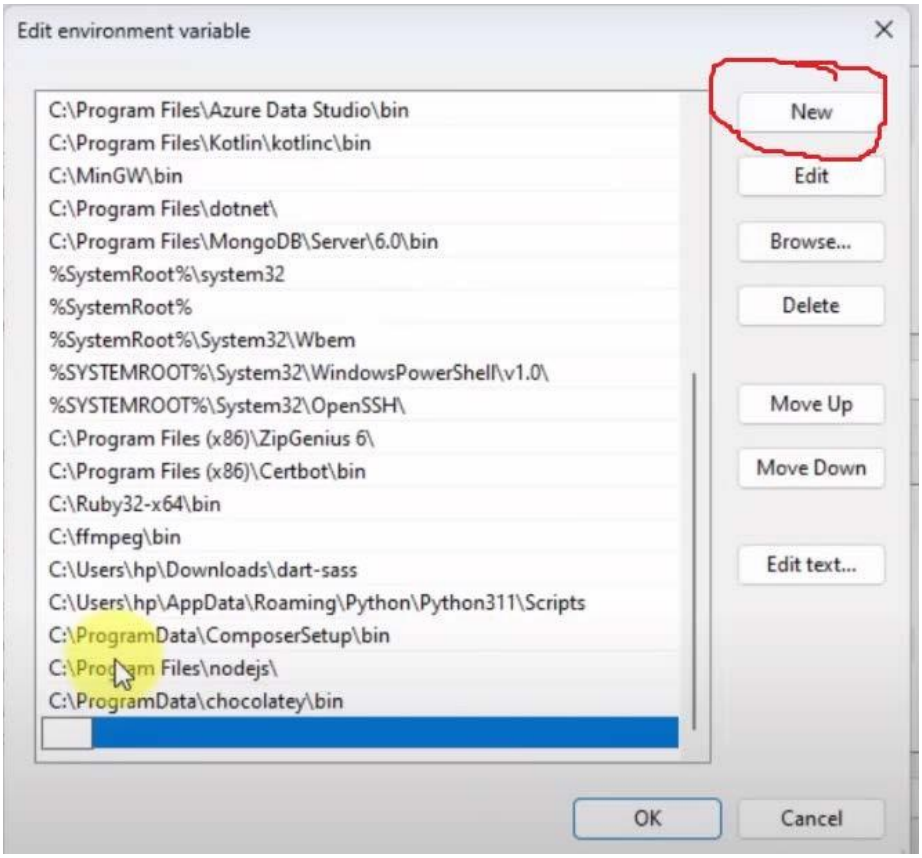
Step 21: Click on Environment Variables



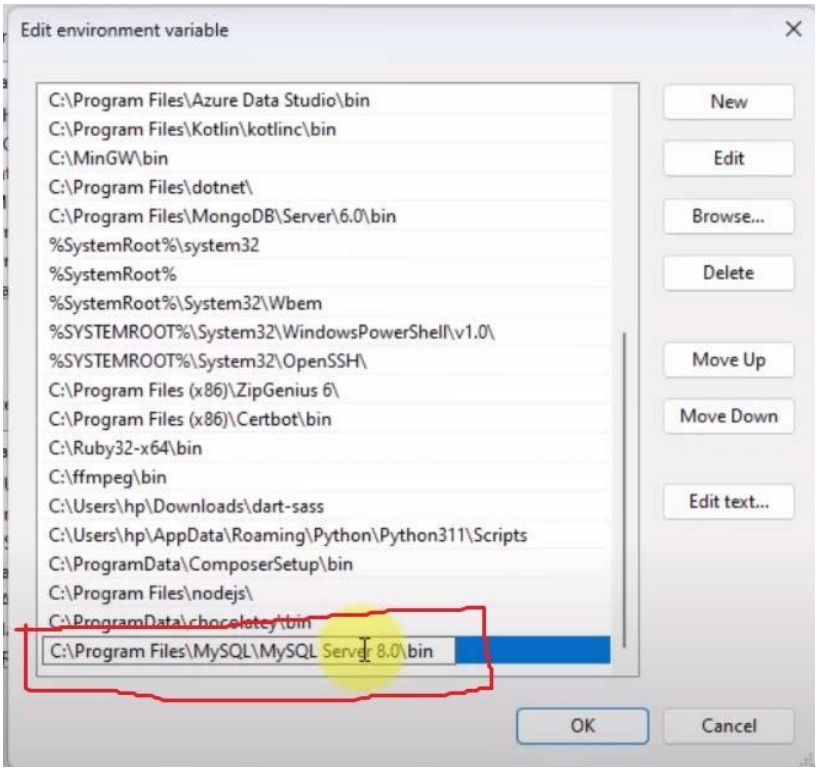
Step 22: Double click on Path in System variables



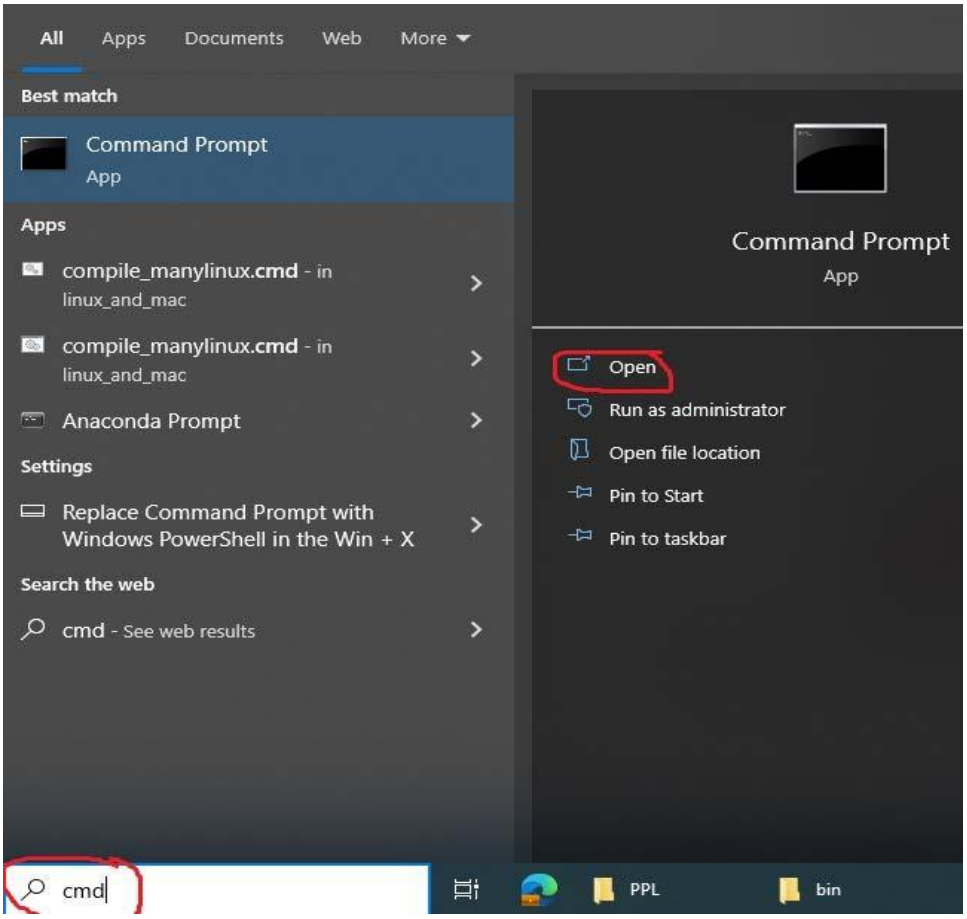
Step 23: Click on New



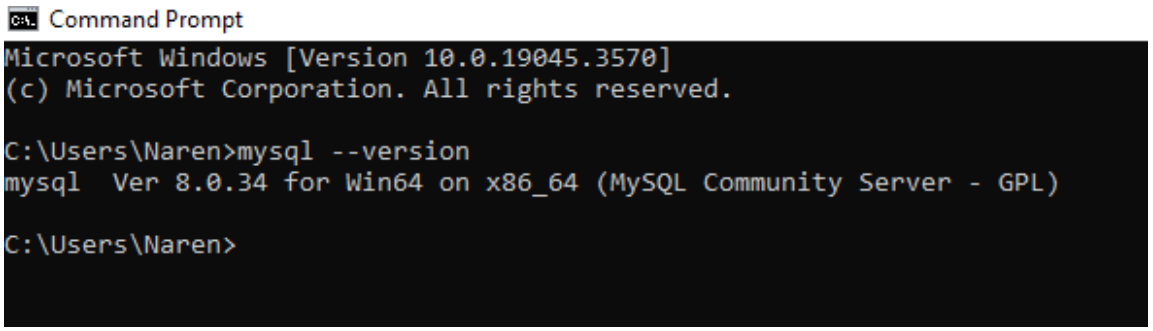
Step 24: Paste the same path copied in step 19 and click on OK -> OK -> OK



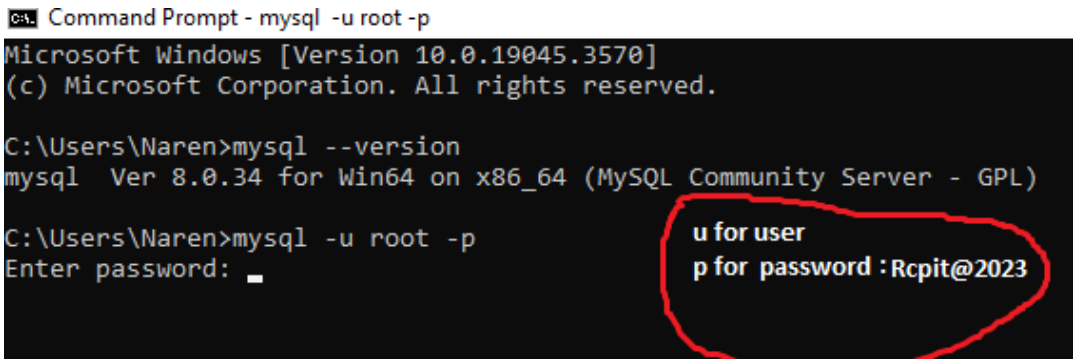
Step 25: Now Go to Start type cmd for command prompt and click on Open



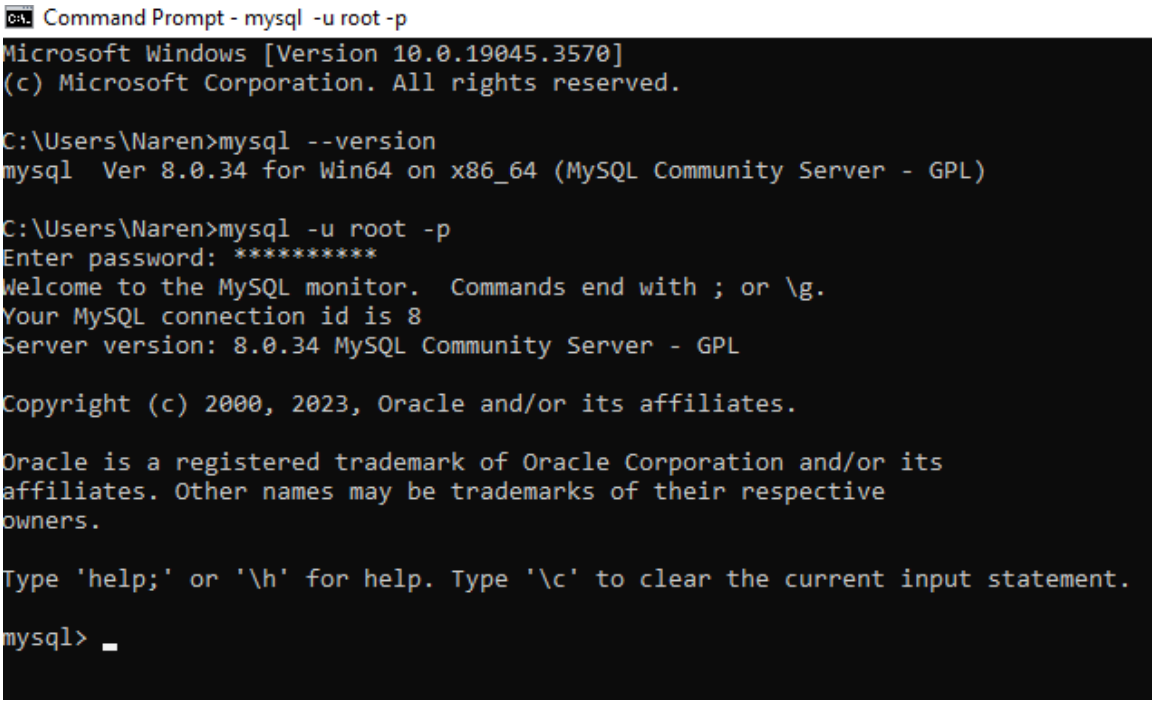
Step 26: on a command prompt type -> mysql --version. This show current version of MySQL installed on the system



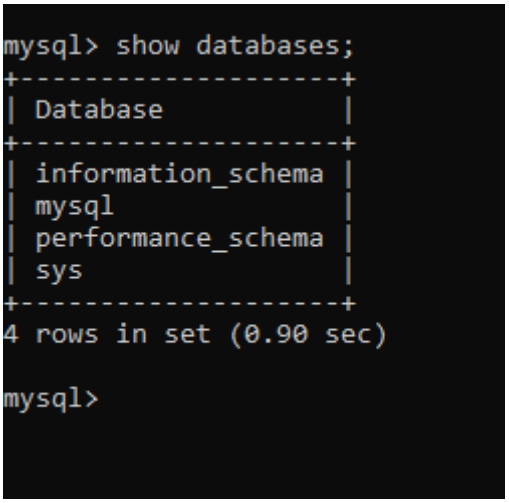
Step 27: Type mysql –u root –p and Enter the password which is Rcpit@2023



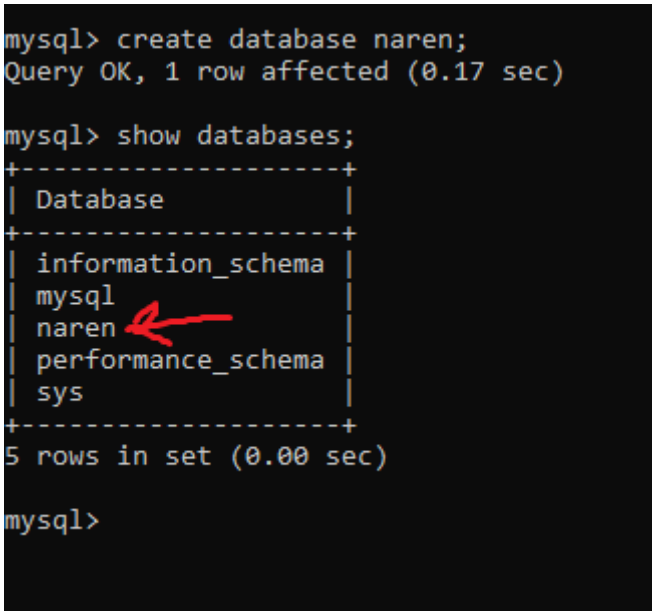
Step 28: After writing password command prompt shows successful installation and connection of MySQL



Step 29: Type -> show databases; to show the default databases



Step 30: Type -> create database naren; which creates database naren to show the database use **step 29**



Conclusion: In this way we have successfully install MySQL database.

Name of Student: _____

Expt No: _____ **Roll No:** _____ **Batch:** _____

Title of Experiment: _____

Date of Performance: _____ **Date of Submission:** _____

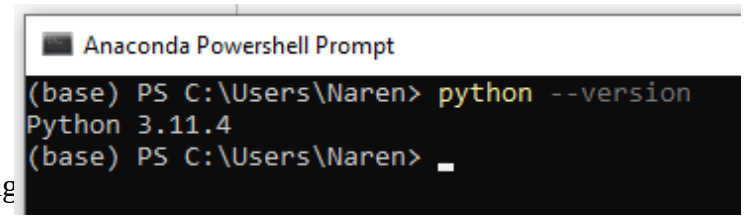
Marks:	Performance in Experiments (5)		
	Journal Submission (5)		**Sign:**
	Viva-voce (5)		
	Overall Marks		

AIM: Program to establish database connection with MySQL.

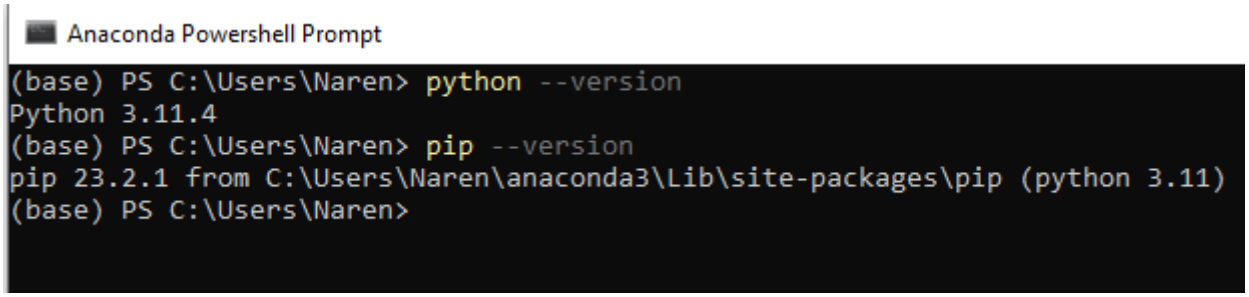
In order to establish connection it is necessary to install some dependencies and python packages. As in our previous laboratory we have successfully installed MySQL database. As we are using Jupyter notebook for our laboratory we have to follow the following steps.

Step 1: Go To -> start -> Anaconda3-> Anaconda Powershell Prompt and click on it

Step 2: check for python version type -> python --version

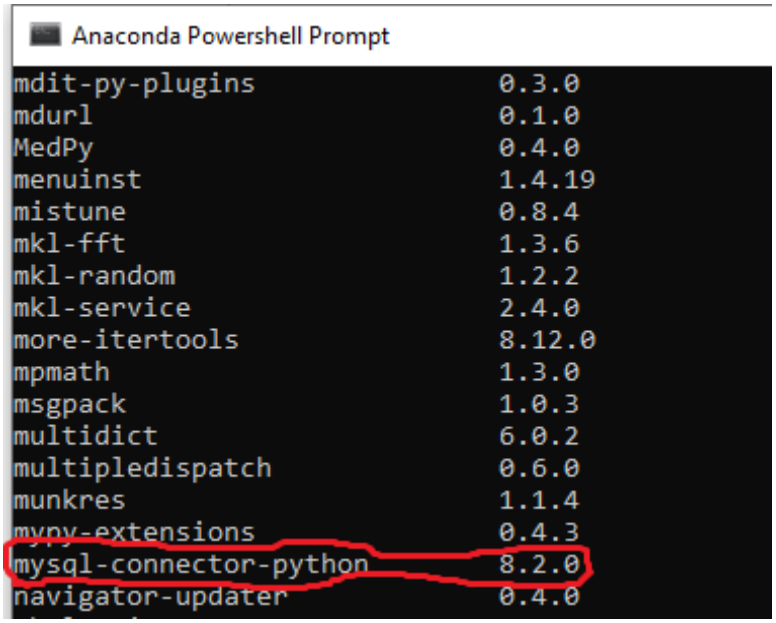


Step 3: check for pip version type -> pip --version



Step 4: Type -> pip list which shows list of installed packages

if mysql-connector-python is installed then skip the step 5.



Step 5: On Anaconda Powershell Prompt type -> pip install mysql-connector-python. Once the installation is successful we can establish the connection.

Step 6: Now open jupyter notebook and type following code in the notebook.

CODE:

```
import mysql.connector

conn = mysql.connector.connect(host='localhost', password= 'Rcpit@2023',user='root')

if conn.is_connected():

   print("Connection Established")
```

OUTPUT:

```
Connection Established
```

Name of Student: _____

Expt No: _____ **Roll No:** _____ **Batch:** _____

Title of Experiment: _____

Date of Performance: _____ **Date of Submission:** _____

Marks:	Performance in Experiments (5)		
	Journal Submission (5)		**Sign:**
	Viva-voce (5)		
	Overall Marks		

AIM: Program to create database and table with MySQL.

CODE:

```
import mysql.connector
db = mysql.connector.connect(host='localhost',
                             password= 'Rcpit@2023',
                             user='root')
mycursor = db.cursor()


mycursor.execute("CREATE DATABASE student1")
mycursor.execute("SHOW DATABASES")
for x in mycursor:
   print(x)
```

OUTPUT:

```
('information_schema',)
('mysql',)
('naren',)
('performance_schema',)
('student',)
('student1',)
('sys',)
```

CODE: Create Table student_info

```
import mysql.connector
db = mysql.connector.connect(host='localhost',
                             password= 'Satish@123',
                            user='root',
                            database='student')
mycursor = db.cursor()
mycursor.execute("CREATE TABLE student_info(name VARCHAR(50), age smallint UNSIGNED, studentID int PRIMARY KEY AUTO_INCREMENT)")
mycursor.execute("SHOW TABLES")
for tb in mycursor:
   print(tb)
```

OUTPUT:

```
('student_info',)
```

CODE: Create Table student_info

```
import mysql.connector
db = mysql.connector.connect(host='localhost',
                             password= 'Satish@123',
                            user='root',
                            database='student')
mycursor = db.cursor()
mycursor.execute("CREATE TABLE student_info(name VARCHAR(50), age smallint UNSIGNED, studentID int PRIMARY KEY AUTO_INCREMENT)")
mycursor.execute("SHOW TABLES")
for tb in mycursor:
   print(tb)
```

OUTPUT:

```
('student_info',)
```

CODE:

```
import mysql.connector
db = mysql.connector.connect(host='localhost',
                             password= 'Satish@123',
                            user='root',
                            database='student')
mycursor = db.cursor()
sqlFormula = "INSERT INTO student_info(name, age) VALUES(%s, %s) "

student1 = ("Narendra", 44)
mycursor.execute(sqlFormula, student1)

db.commit()
```

OUTPUT: