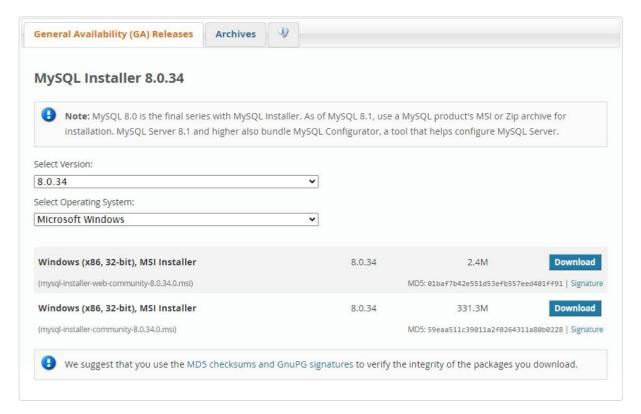
Name of Student:			
Expt No:	Roll No:	Batch:	
Title of Experiment:			
Date of Performance:		Date of Submission:	
Marks:	Performance in Experiments (5)		
	Journal Submission (5)	Çi.a	Cian
	Viva-voce (5)		Sign:
	Overall Marks		

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

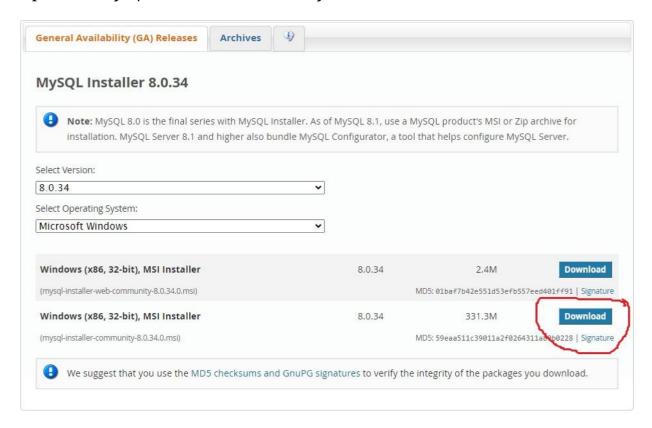
https://dev.mysql.com/downloads/installer/



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

Python Programming Laboratory

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



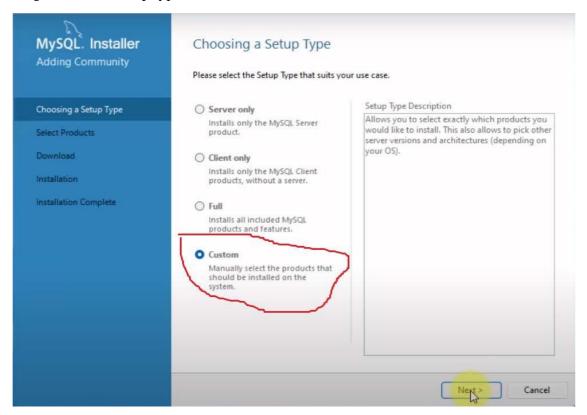
Step 3: Just click on No thanks, just start my download



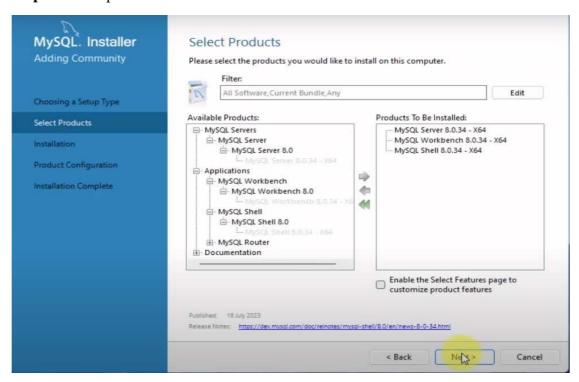
Step 4: After downloading double click the MSI installer .exe file

mysql-installer-community-8.0.34.0 10/23/2023 4:17 PM Windows Installer ... 339,208 KB

Step 5: Choose setup type- custom and click Next

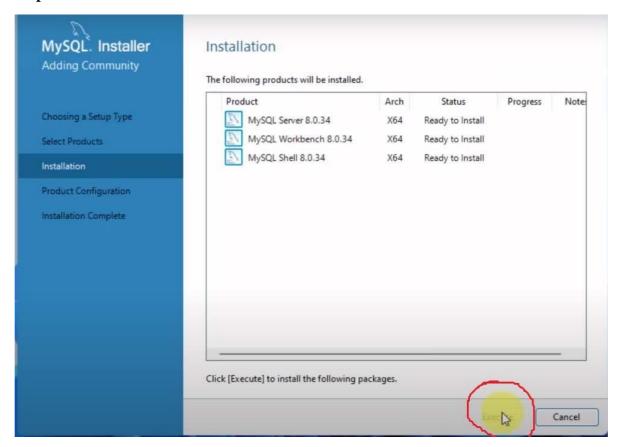


Step 6: Select product and click on Next

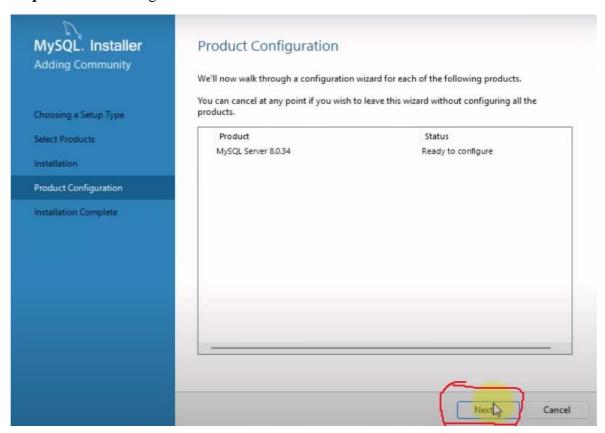


Python Programming Laboratory

Step 7: Click on Execute

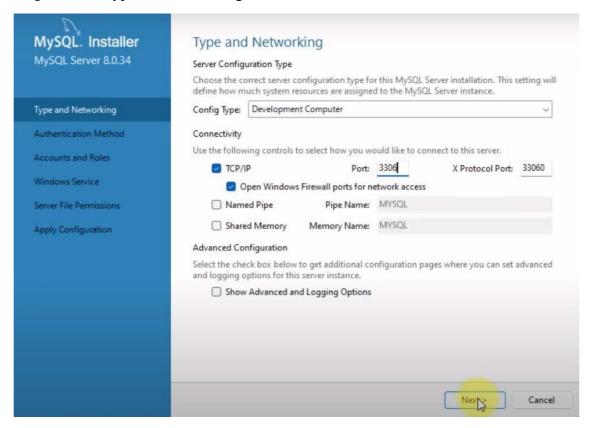


Step 8: Product configuration-click on Next

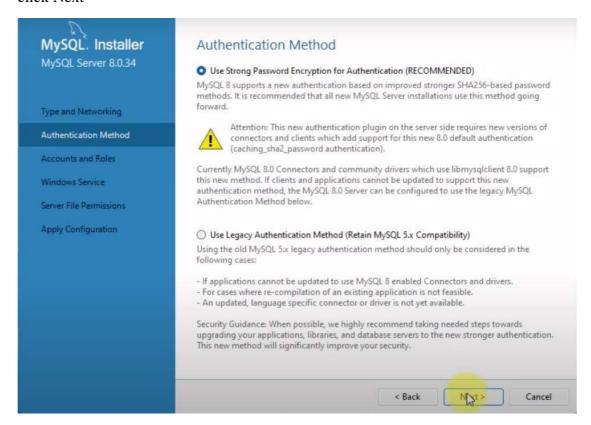


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Step 9: Select type and Networking and click Next



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



Edit User Delete

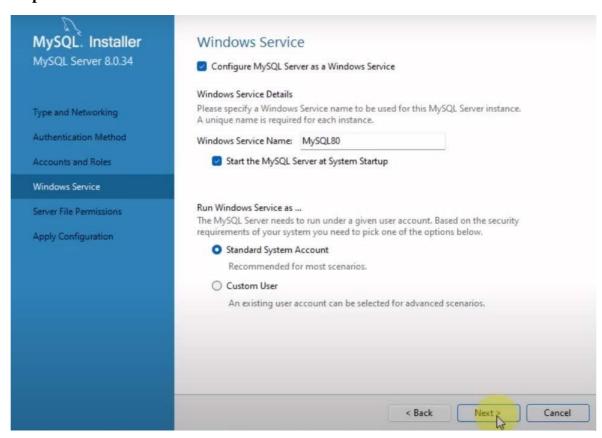
Cancel

< Back

MySQL. Installer Accounts and Roles MySQL Server 8.0.34 Root Account Password Enter the password for the root account. Please remember to store this password in a secure MySQL Root Password: ********* Type and Networking *********** Repeat Password: **Authentication Method** Password strength: Accounts and Roles Type Password as: Rcpit@2023 Windows Service Server File Permissions MySQL User Accounts Create MySQL user accounts for your users and applications. Assign a role to the user that **Apply Configuration** consists of a set of privileges. MySQL User Name User Role Add User Host

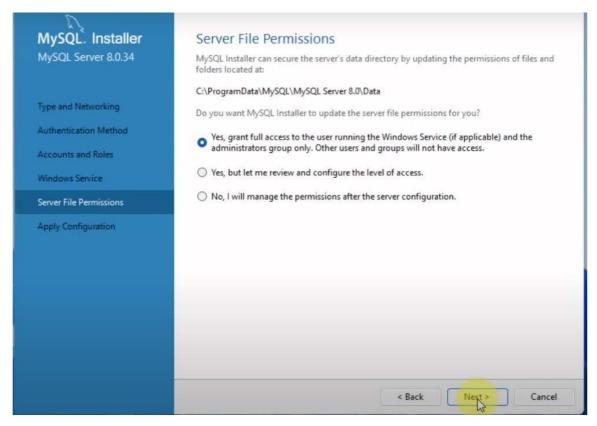
Step 11: Accounts and Roles- Select MySQL Root Password as Rcpit@2023 and click next

Step 12: Select Windows Service and click Next

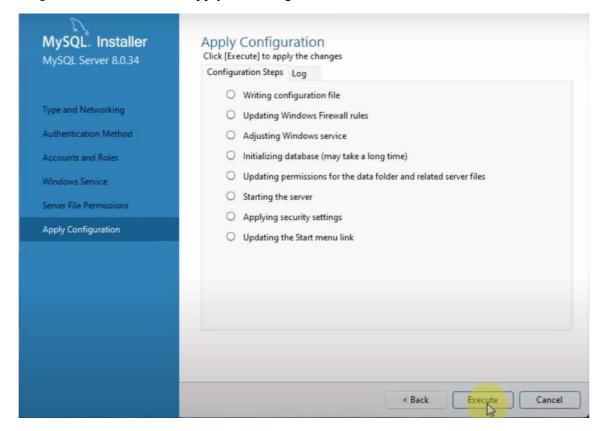


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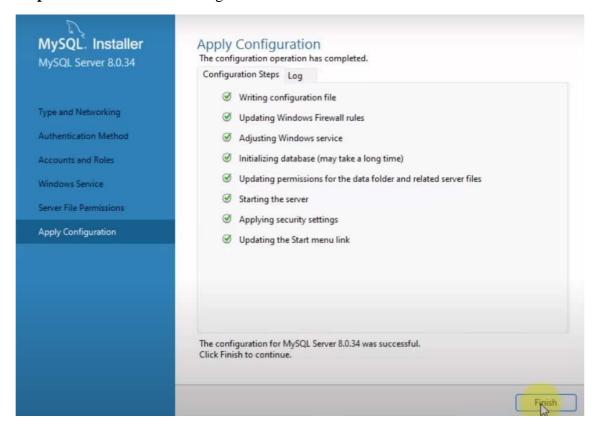
Step 13: Select Server File Permission and click Next



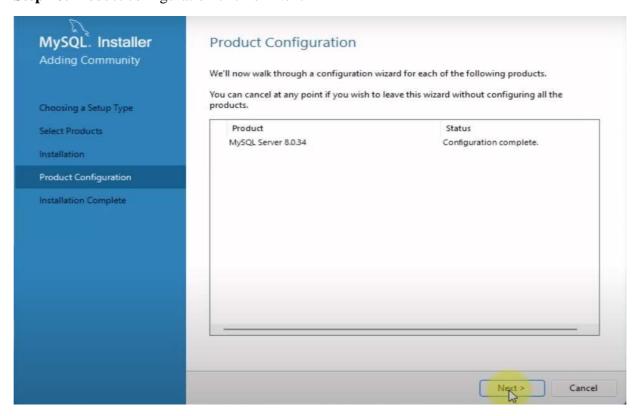
Step 14: Click Execute to apply the configuration



Step 15: After successful configuration click on Finish

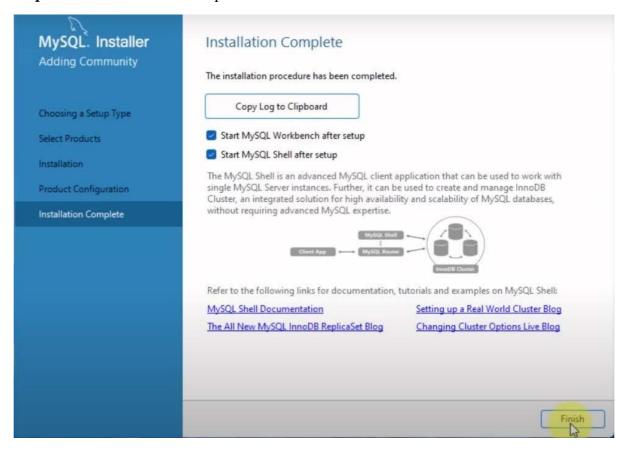


Step 16: Product configuration click on Next

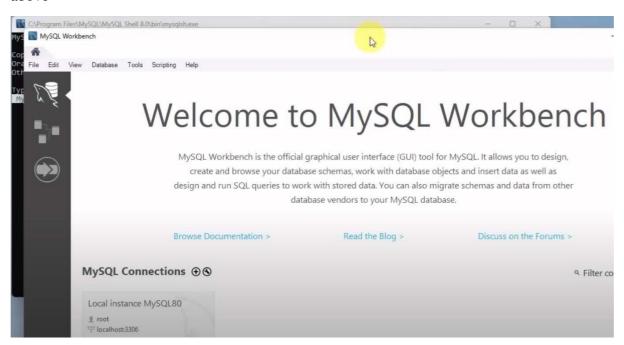


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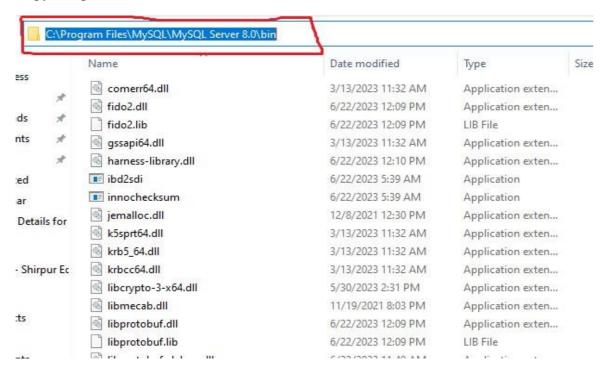
Step 17: Once Installation completed click on Finish



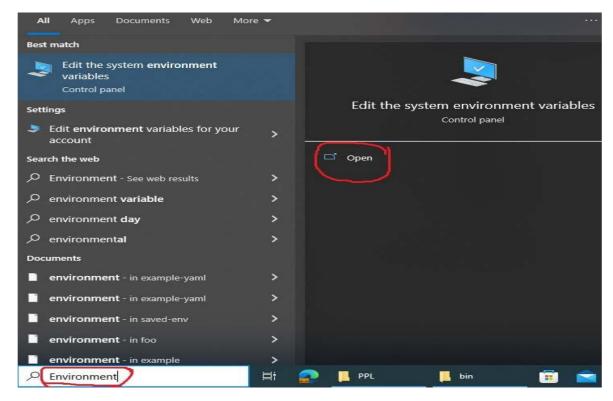
Step 18: Once the MySQL Shell and Workbench started set up the path and for that use step 19 and above



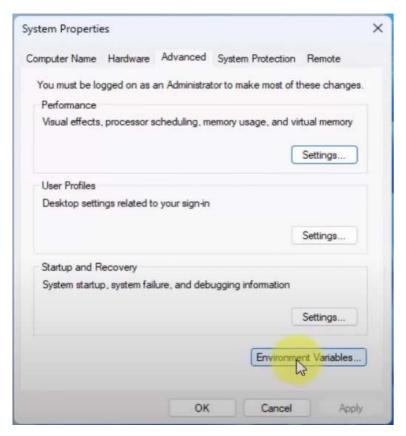
Step 19: Go to C drive -> Program Files -> MySQL -> MySQL Server 8.0 -> bin Copy this path



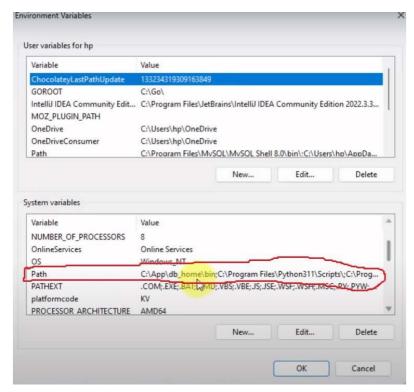
Step 20: Go to Start and Type Environment and click on Open



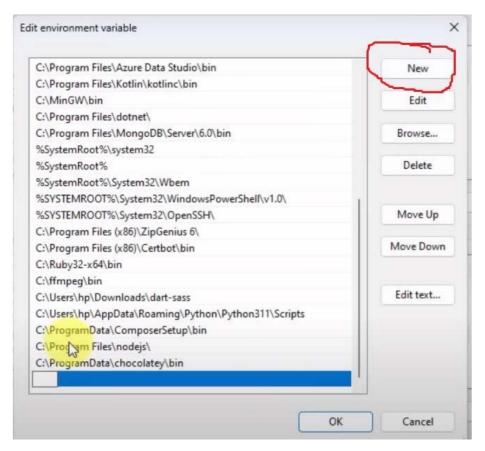
Step 21: Click on Environment Variables



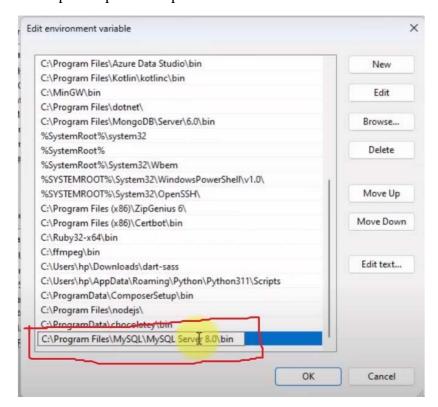
Step 22: Double click on Path in System variables



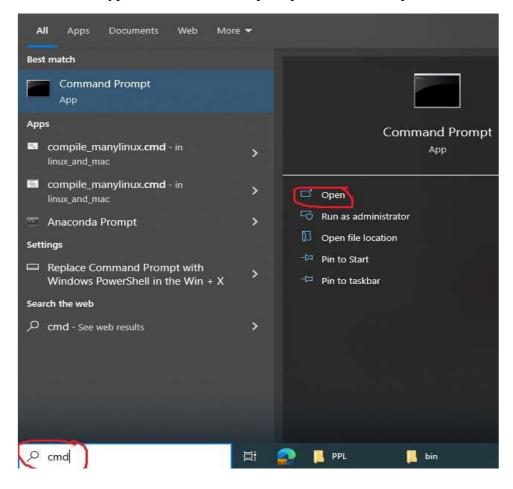
Step 23: Click on New



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

```
Command Prompt

Microsoft Windows [Version 10.0.19045.3570]

(c) Microsoft Corporation. All rights reserved.

C:\Users\Naren>mysql --version

mysql Ver 8.0.34 for Win64 on x86_64 (MySQL Community Server - GPL)

C:\Users\Naren>
```

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

```
Command Prompt - mysql -u root -p

Microsoft Windows [Version 10.0.19045.3570]

(c) Microsoft Corporation. All rights reserved.

C:\Users\Naren>mysql --version

mysql Ver 8.0.34 for Win64 on x86_64 (MySQL Community Server - GPL)

C:\Users\Naren>mysql -u root -p

Enter password: _______

for password: Rcpit@2023
```

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

```
Command Prompt - mysql -u root -p
Microsoft Windows [Version 10.0.19045.3570]
(c) Microsoft Corporation. All rights reserved.
C:\Users\Naren>mysql --version
nysql Ver 8.0.34 for Win64 on x86_64 (MySQL Community Server - GPL)
C:\Users\Naren>mysql -u root -p
Enter password: ********
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 8
Server version: 8.0.34 MySQL Community Server - GPL
Copyright (c) 2000, 2023, Oracle and/or its affiliates.
Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
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**

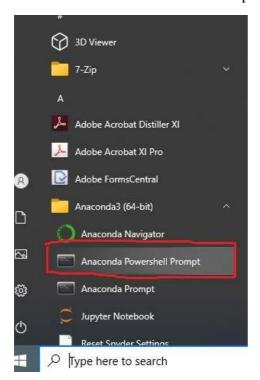
Conclusion: In this way we have successfully install MySQL database.

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		

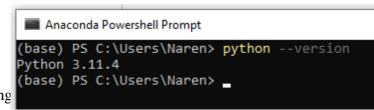
AIM: Program to establish database connection with MySQL.

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



Python Programming

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

```
Anaconda Powershell Prompt

(base) PS C:\Users\Naren> python --version

Python 3.11.4

(base) PS C:\Users\Naren> pip --version

pip 23.2.1 from C:\Users\Naren\anaconda3\Lib\site-packages\pip (python 3.11)

(base) PS C:\Users\Naren>
```

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

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

Anaconda Powershell Prompt	
mdit-py-plugins	0.3.0
mdurl	0.1.0
MedPy	0.4.0
menuinst	1.4.19
mistune	0.8.4
mkl-fft	1.3.6
mkl-random	1.2.2
mkl-service	2.4.0
more-itertools	8.12.0
mpmath	1.3.0
msgpack	1.0.3
multidict	6.0.2
multipledispatch	0.6.0
munkres	1.1.4
myny-extensions	0.4.3
mysql-connector-python	8.2.0
navigator-updater	0.4.0

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

OUTPUT:

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

for x in mycursor:

print(x)

mycursor.execute("SHOW DATABASES")

```
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',)
Python Programming Laboratory
                                                             Page No.
```

CODE:

OUTPUT:

