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**Sub:** Internship of python(online)

**Branch:** IT

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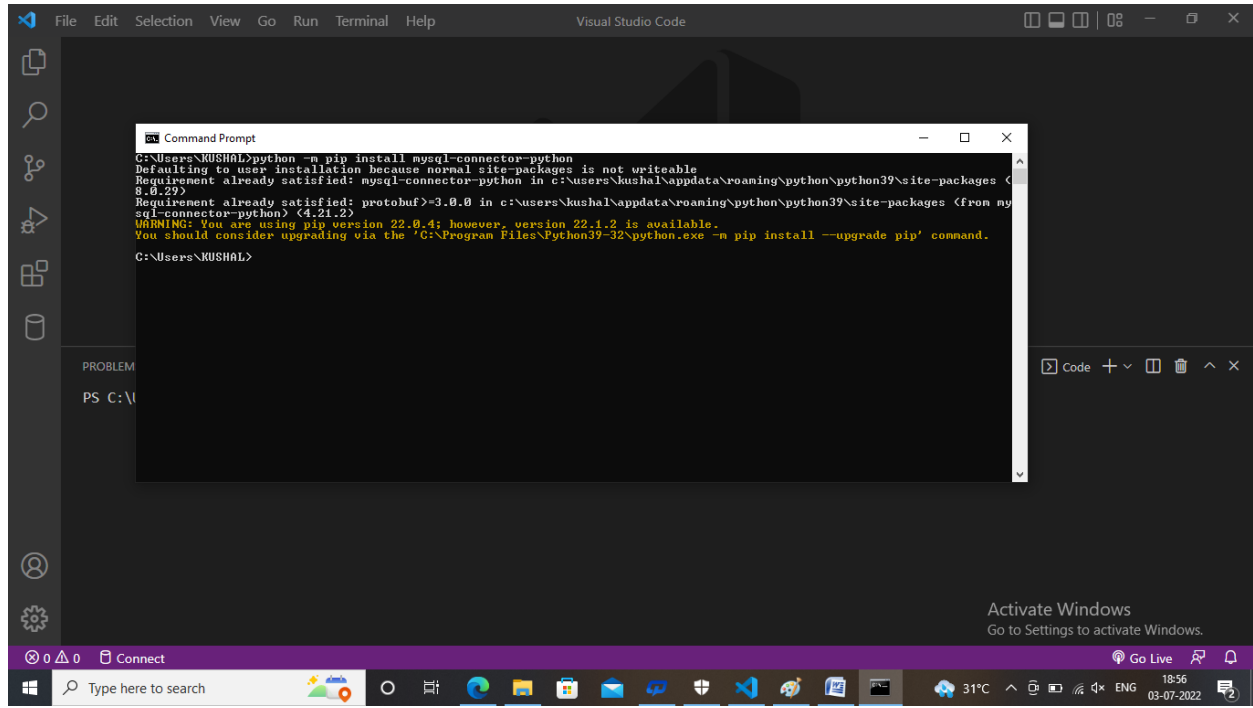
**Guided by:** Devanshi ma'm

**Company name:** Akash Technolabs

**Exercise :** 6 Tutorial Practice programs

**Date :** 03/07/2022

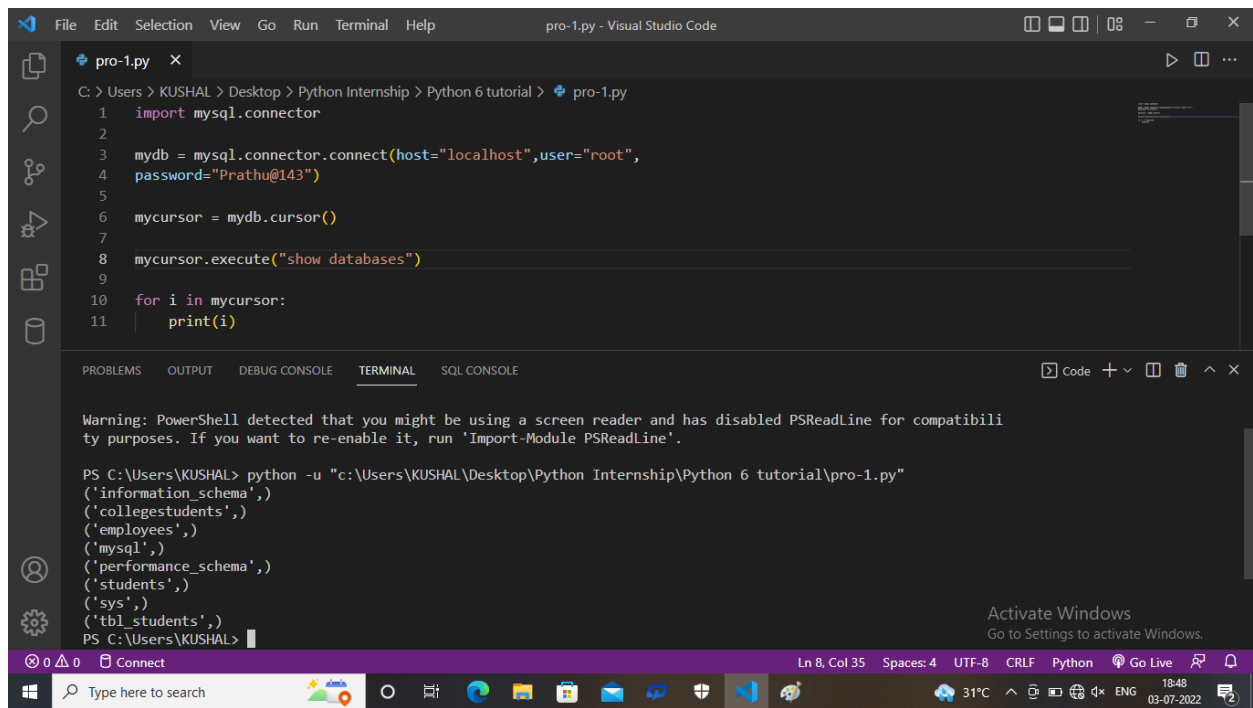
## (PRACTICAL – 1): Download and install "MySQL Connector":



The screenshot shows a Visual Studio Code window with a Command Prompt terminal. The terminal output indicates that the MySQL Connector Python package is already installed (version 4.21.2) and that the requirement is satisfied. A warning message suggests upgrading pip to version 22.1.2. The command prompt shows the current directory as C:\Users\KUSHAL>.

```
C:\Users\KUSHAL>python -m pip install mysql-connector-python
Defaulting to user installation because normal site-packages is not writeable
Requirement already satisfied: mysql-connector-python in c:\users\kushal\appdata\roaming\python\python39\site-packages (4.21.2)
Requirement already satisfied: protohuf>=3.0.0 in c:\users\kushal\appdata\roaming\python\python39\site-packages (from mysql-connector-python) (4.21.2)
WARNING: You are using pip version 22.0.4; however, version 22.1.2 is available.
You should consider upgrading via the 'C:\Program Files\Python39-32\python.exe -m pip install --upgrade pip' command.
C:\Users\KUSHAL>
```

## (PRACTICAL – 2):

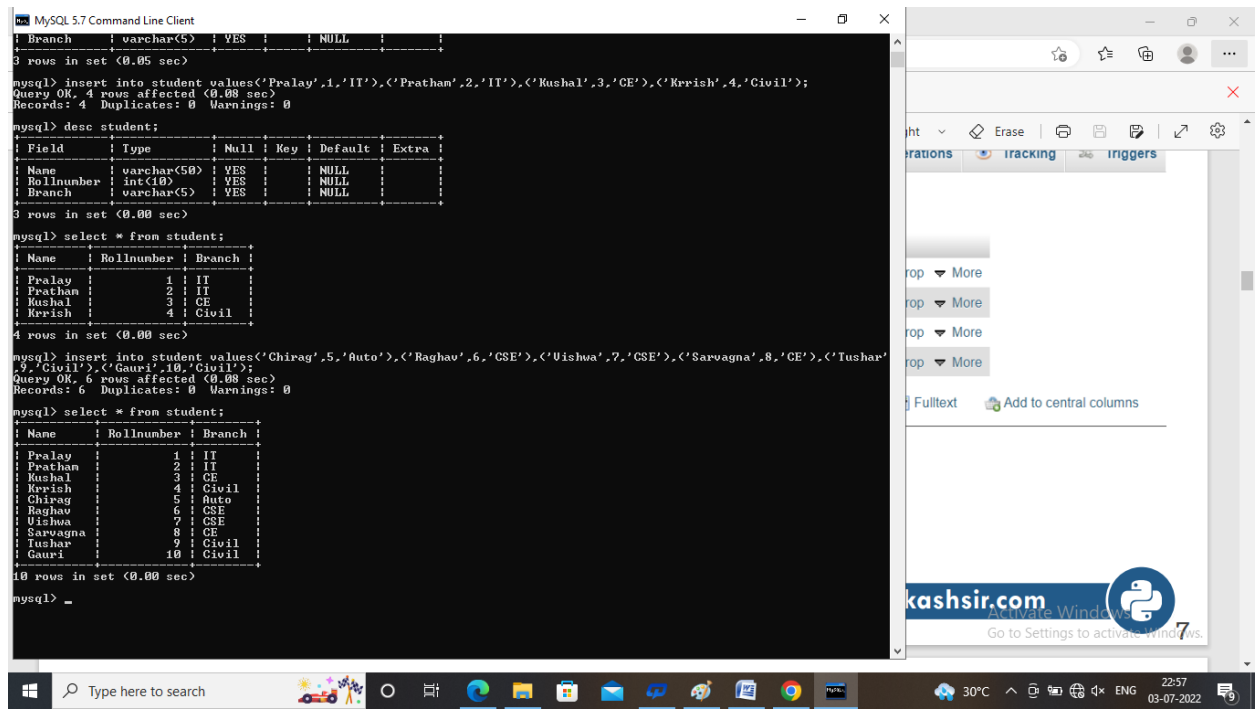


The screenshot shows a Visual Studio Code window with a Python script named 'pro-1.py' open. The script connects to a MySQL database and lists the databases. The terminal output shows the command 'python -u "c:\Users\KUSHAL\Desktop\Python Internship\Python 6 tutorial\pro-1.py"' and the resulting list of databases: ('information\_schema',), ('collegestudents',), ('employees',), ('mysql',), ('performance\_schema',), ('students',), ('sys',), and ('tbl\_students',).

```
C:\Users\KUSHAL\Desktop\Python Internship\Python 6 tutorial\pro-1.py
1 import mysql.connector
2
3 mydb = mysql.connector.connect(host="localhost",user="root",
4 password="Prathu@143")
5
6 mycursor = mydb.cursor()
7
8 mycursor.execute("show databases")
9
10 for i in mycursor:
11     print(i)
```

```
PS C:\Users\KUSHAL> python -u "c:\Users\KUSHAL\Desktop\Python Internship\Python 6 tutorial\pro-1.py"
('information_schema',)
('collegestudents',)
('employees',)
('mysql',)
('performance_schema',)
('students',)
('sys',)
('tbl_students',)
```

## (PRACTICAL – 3): Table Structure



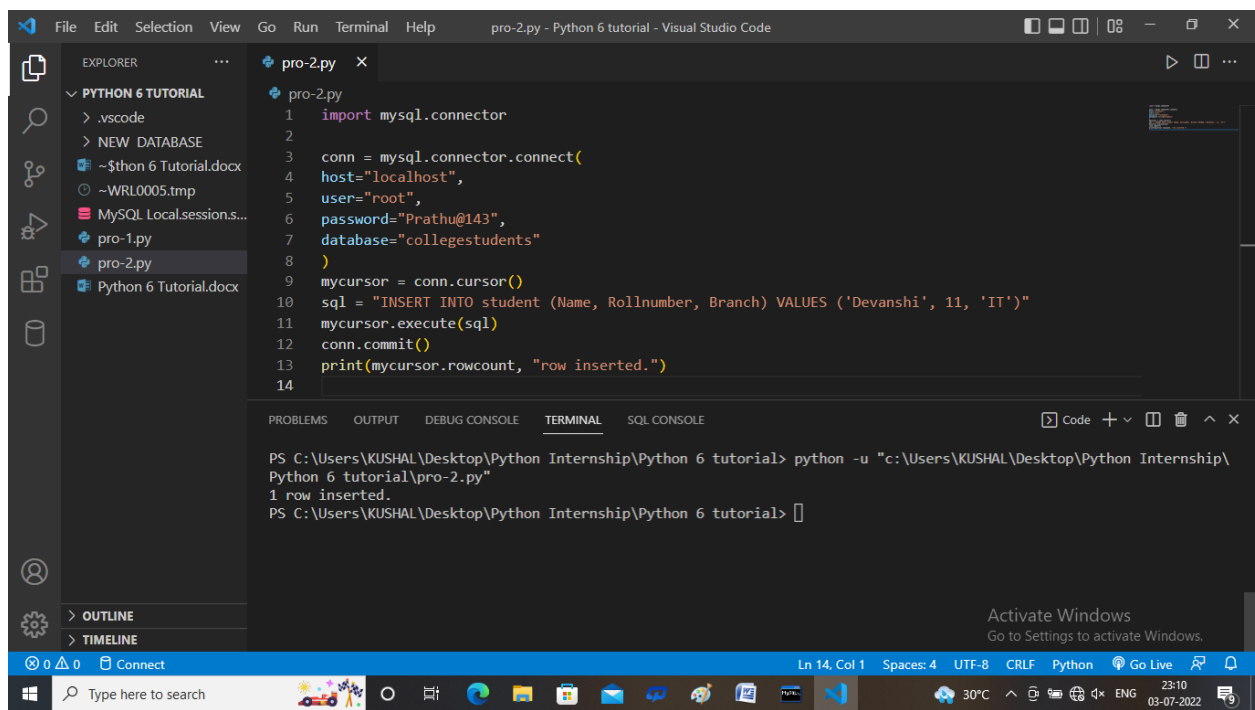
The screenshot shows the MySQL 5.7 Command Line Client interface. The user has created a table named 'student' and inserted data into it. The table structure is as follows:

Field	Type	Null	Key	Default	Extra
Name	varchar(50)	YES		NULL	
Rollnumber	int(10)	YES		NULL	
Branch	varchar(5)	YES		NULL	

The user has inserted data into the 'student' table. The data is as follows:

Name	Rollnumber	Branch
Pralay	1	IT
Pratham	2	IT
Kushal	3	CE
Krrish	4	Civil
Chirag	5	Auto
Raghav	6	CSE
Vishwa	7	CSE
Sarvagana	8	CE
Tushar	9	Civil
Gauri	10	Civil

## (PRACTICAL – 4): Insert Data



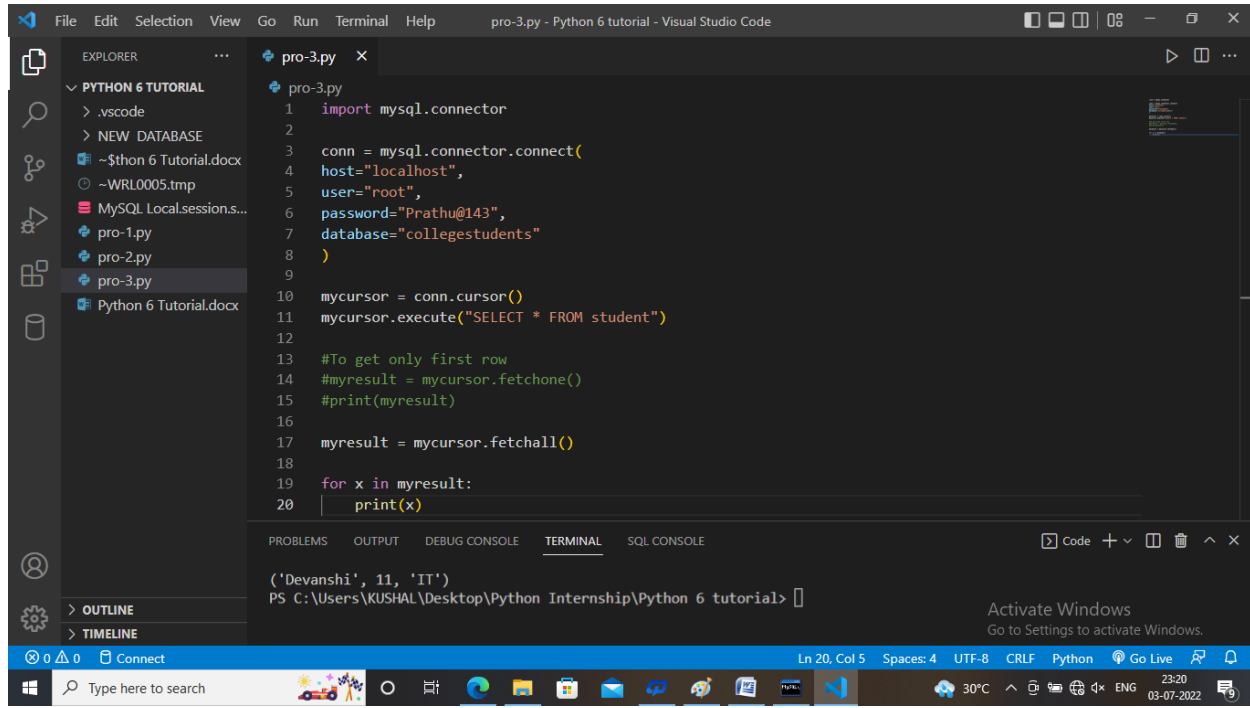
The screenshot shows the Visual Studio Code editor with a Python script named 'pro-2.py' open. The script uses the MySQL connector to connect to a database and insert data into a table named 'student'.

```
1 import mysql.connector
2
3 conn = mysql.connector.connect(
4     host="localhost",
5     user="root",
6     password="Prathu@143",
7     database="collegestudents"
8 )
9 mycursor = conn.cursor()
10 sql = "INSERT INTO student (Name, Rollnumber, Branch) VALUES ('Devanshi', 11, 'IT')"
11 mycursor.execute(sql)
12 conn.commit()
13 print(mycursor.rowcount, "row inserted.")
14
```

The terminal output shows the command to run the script and the result:

```
PS C:\Users\KUSHAL\Desktop\Python Internship\Python 6 tutorial> python -u "c:\Users\KUSHAL\Desktop\Python Internship\Python 6 tutorial\pro-2.py"
1 row inserted.
PS C:\Users\KUSHAL\Desktop\Python Internship\Python 6 tutorial>
```

## (PRACTICAL – 5): Display Data



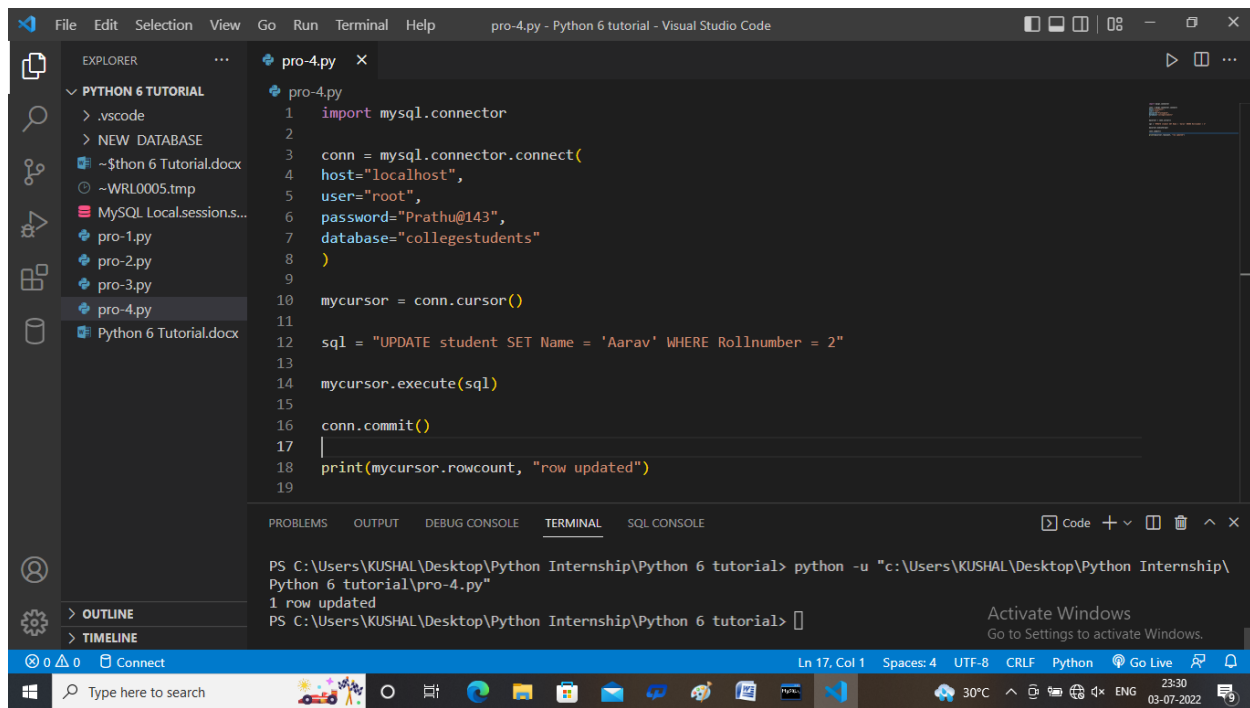
The screenshot shows the Visual Studio Code interface with a Python script named `pro-3.py` open. The script connects to a MySQL database and displays data from a table named `student`. The Explorer panel on the left shows the project structure, including a folder named `PYTHON 6 TUTORIAL` and several files. The Terminal panel at the bottom shows the output of the script, displaying a single row of data: `('Devanshi', 11, 'IT')`.

```
1 import mysql.connector
2
3 conn = mysql.connector.connect(
4     host="localhost",
5     user="root",
6     password="Prathu@143",
7     database="collegestudents"
8 )
9
10 mycursor = conn.cursor()
11 mycursor.execute("SELECT * FROM student")
12
13 #To get only first row
14 #myresult = mycursor.fetchone()
15 #print(myresult)
16
17 myresult = mycursor.fetchall()
18
19 for x in myresult:
20     print(x)
```

Terminal Output:

```
(('Devanshi', 11, 'IT'))
PS C:\Users\KUSHAL\Desktop\Python Internship\Python 6 tutorial>
```

## (PRACTICAL – 6): Update Data



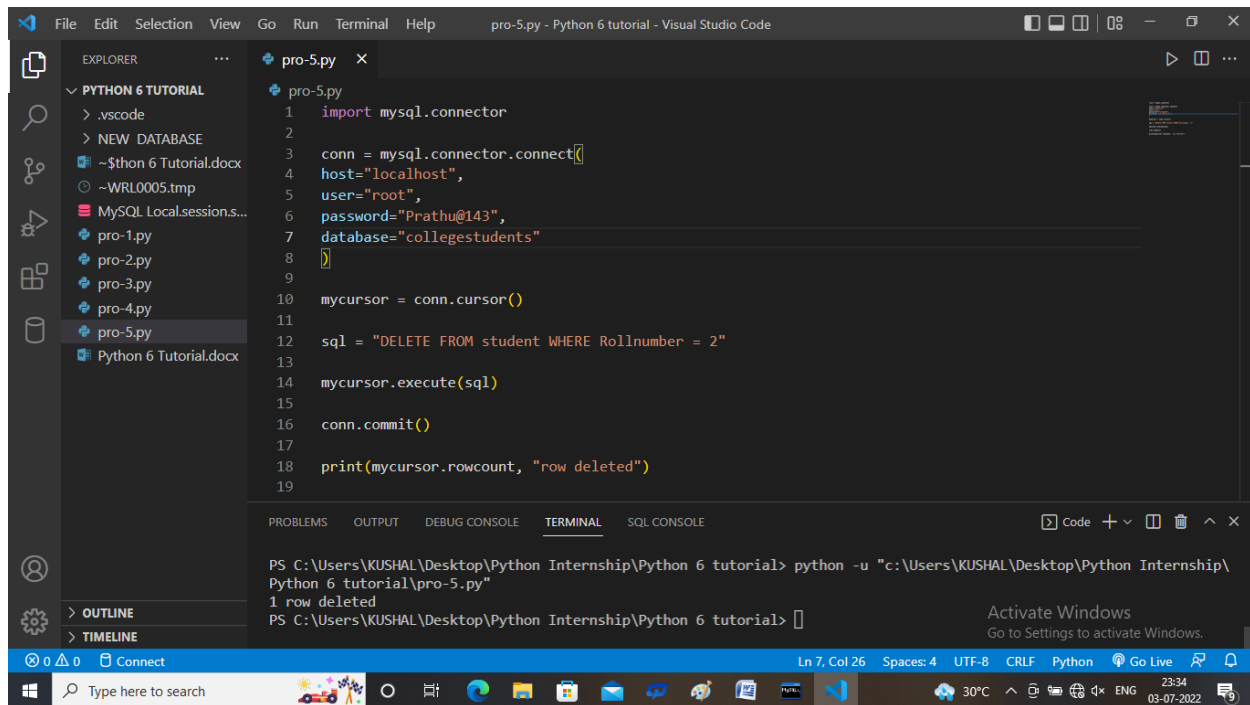
The screenshot shows the Visual Studio Code interface with a Python script named `pro-4.py` open. The script connects to a MySQL database and updates the `Name` of a student with `Rollnumber = 2` to `'Aarav'`. The Explorer panel on the left shows the project structure, including a folder named `PYTHON 6 TUTORIAL` and several files. The Terminal panel at the bottom shows the output of the script, displaying `1 row updated`.

```
1 import mysql.connector
2
3 conn = mysql.connector.connect(
4     host="localhost",
5     user="root",
6     password="Prathu@143",
7     database="collegestudents"
8 )
9
10 mycursor = conn.cursor()
11
12 sql = "UPDATE student SET Name = 'Aarav' WHERE Rollnumber = 2"
13
14 mycursor.execute(sql)
15
16 conn.commit()
17
18 print(mycursor.rowcount, "row updated")
19
```

Terminal Output:

```
PS C:\Users\KUSHAL\Desktop\Python Internship\Python 6 tutorial> python -u "c:\Users\KUSHAL\Desktop\Python Internship\Python 6 tutorial\pro-4.py"
1 row updated
PS C:\Users\KUSHAL\Desktop\Python Internship\Python 6 tutorial>
```

## (PRACTICAL – 7): Delete Data



The screenshot displays the Visual Studio Code interface with a Python script named `pro-5.py` open. The script connects to a MySQL database and executes a DELETE statement. The Explorer sidebar on the left shows the project structure, including a folder named `PYTHON 6 TUTORIAL` and several Python files. The Terminal at the bottom shows the command to run the script and the output indicating that one row was deleted.

```
pro-5.py
1  import mysql.connector
2
3  conn = mysql.connector.connect(
4      host="localhost",
5      user="root",
6      password="Prathu@143",
7      database="collegestudents"
8  )
9
10 mycursor = conn.cursor()
11
12 sql = "DELETE FROM student WHERE Rollnumber = 2"
13
14 mycursor.execute(sql)
15
16 conn.commit()
17
18 print(mycursor.rowcount, "row deleted")
19
```

Terminal Output:

```
PS C:\Users\KUSHAL\Desktop\Python Internship\Python 6 tutorial> python -u "c:\Users\KUSHAL\Desktop\Python Internship\Python 6 tutorial\pro-5.py"
1 row deleted
PS C:\Users\KUSHAL\Desktop\Python Internship\Python 6 tutorial>
```

