

## MYSQL – PYTHON CONNECTIVITY

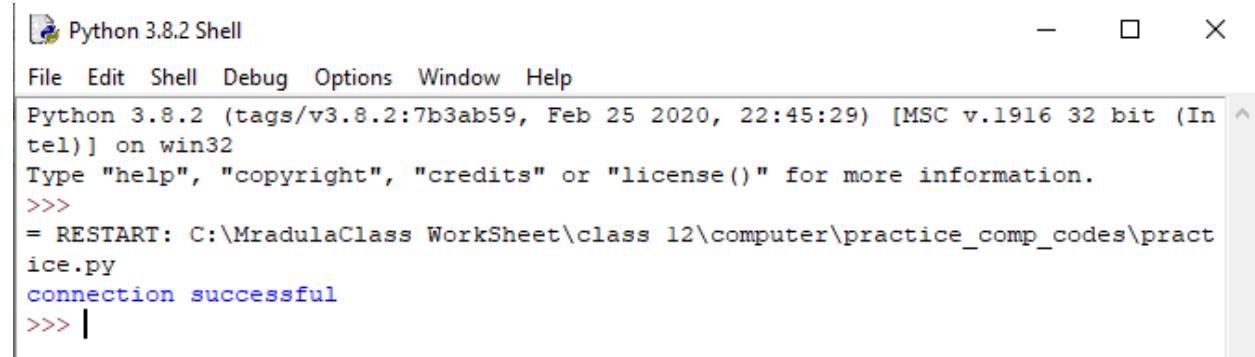
### 1. Connecting Python and MySQL

```
import mysql.connector as con

mycon=con.connect(host="localhost",user="root",passwd="mradula2003@")

if mycon.is_connected():

    print("connection successful")
```

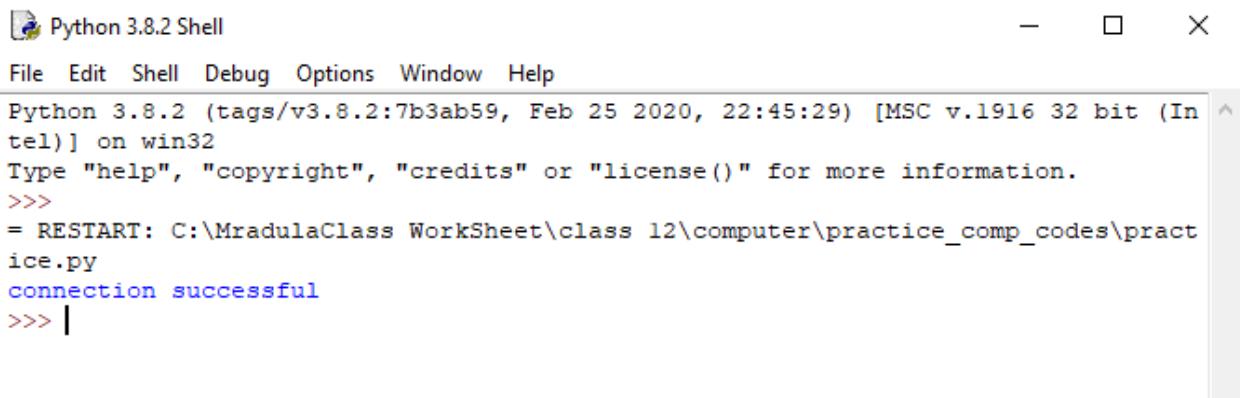


The screenshot shows a Python 3.8.2 Shell window. The title bar says "Python 3.8.2 Shell". The menu bar includes File, Edit, Shell, Debug, Options, Window, and Help. The main area displays the Python interpreter's prompt and output:

```
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (In tel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice_comp_codes\practice.py
connection successful
>>> |
```

## 2. Connecting Python and MySQL Database

```
import mysql.connector as con
mycon=con.connect(host="localhost",user="root",passwd="mradula2003@",database="prac")
if mycon.is_connected():
    print("connection successful")
```

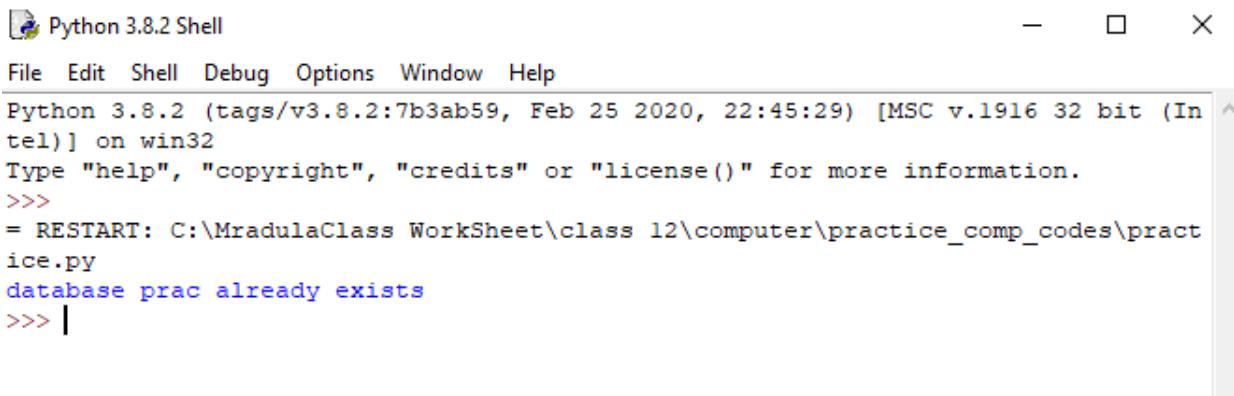


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Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice_comp_codes\practice.py
connection successful
>>> |
```

### 3. Creating database dynamically

```
import mysql.connector as mycon
con = mycon.connect(host="localhost", user="root", passwd="mradula2003@")
cur = con.cursor()
cur.execute("SHOW DATABASES")
flag=False
for dbname in cur:
    if("prac" in dbname):
        flag=True
        break
if not flag:
    cur.execute("Create database if not exists prac")
    print("database prac created")
else:
    print("database prac already exists")
```

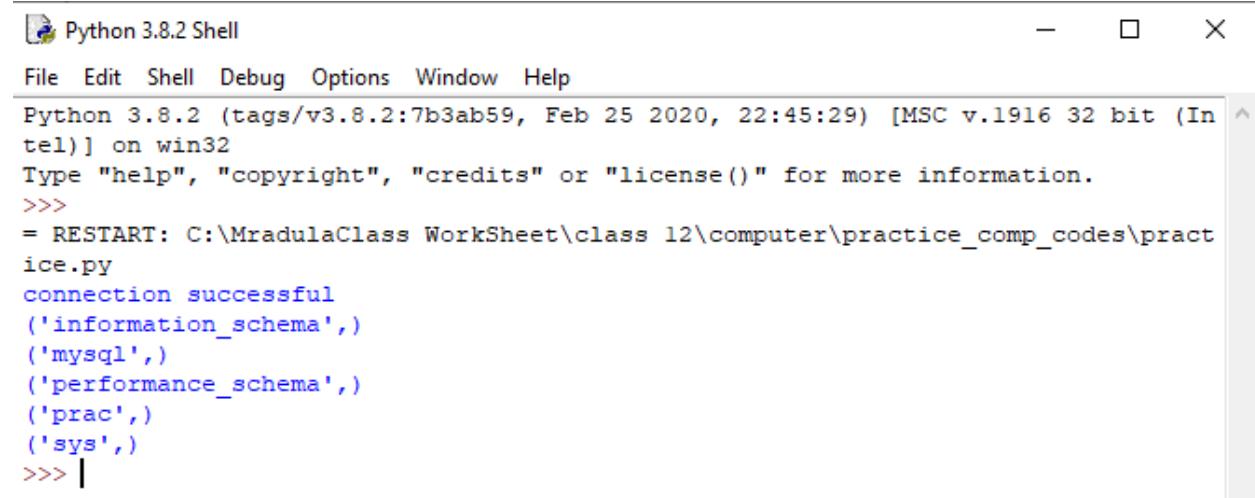


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File Edit Shell Debug Options Window Help
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice_comp_codes\practice.py
database prac already exists
>>> |
```

#### 4. Displaying list of databases

```
import mysql.connector as mycon
con=mycon.connect(host="localhost",user="root",passwd="mradula2003@")
if con.is_connected():
    print("connection successful")
cur=con.cursor()
cur.execute("SHOW DATABASES")
for db_name in cur:
    print(db_name)
```

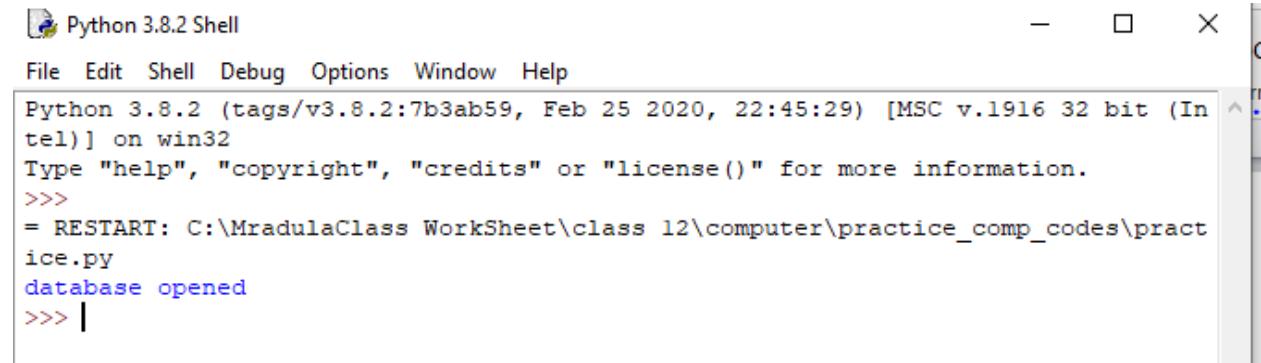


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Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice_comp_codes\practice.py
connection successful
('information_schema',)
('mysql',)
('performance_schema',)
('prac',)
('sys',)
>>> |
```

## 5. Opening database dynamically

```
import mysql.connector as mycon
con=mycon.connect(host="localhost",user="root",passwd="mradula2003@",database="prac")
if con.is_connected():
    print("database opened")
else:
    print("error opening database")
```

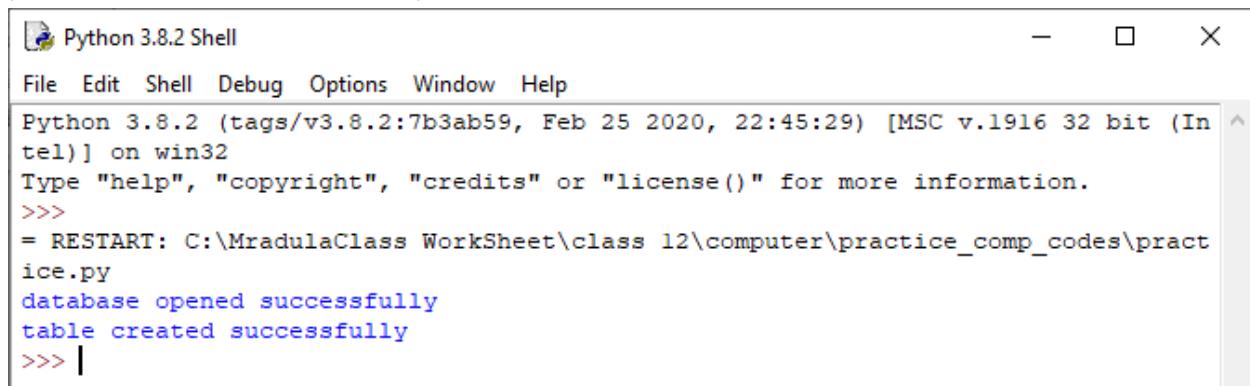


The screenshot shows a Python 3.8.2 Shell window. The menu bar includes File, Edit, Shell, Debug, Options, Window, and Help. The shell area displays the following output:

```
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (In tel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\MradulaClass\WorkSheet\class 12\computer\practice_comp_codes\practice.py
database opened
>>> |
```

## 6. Creating table dynamically

```
import mysql.connector as mycon
con=mycon.connect(host="localhost",user="root",passwd="mradula2003@",database="prac")
if con.is_connected():
    print("database opened successfully")
else:
    print("error opening database")
str1="CREATE TABLE dept (deptno int(2) primary key, dname varchar(20),loc varchar(15))"
cur=con.cursor()
cur.execute(str1)
print("table created successfully")
```

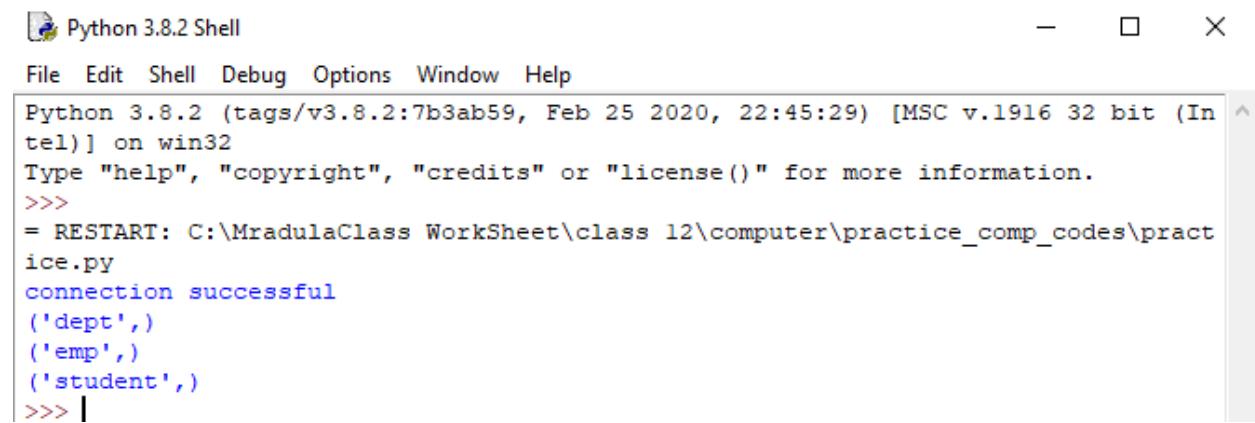


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Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice_comp_codes\practice.py
database opened successfully
table created successfully
>>> |
```

## 7. Displaying list of tables dynamically

```
import mysql.connector as mycon
con=mycon.connect(host="localhost",user="root",passwd="mradula2003@",database="prac")
if con.is_connected():
    print("connection successful")
cur=con.cursor()
cur.execute("SHOW TABLES")
for tb_name in cur:
    print(tb_name)
```

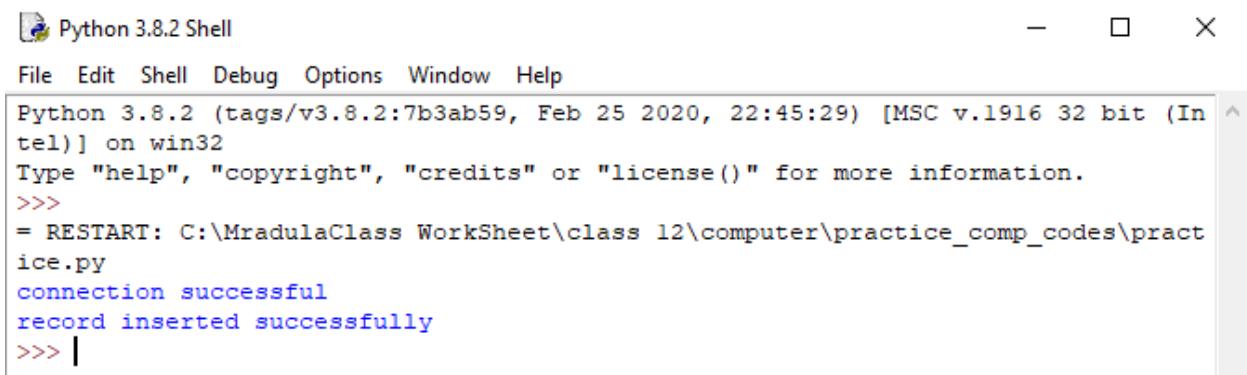


The screenshot shows a Python 3.8.2 Shell window. The title bar says "Python 3.8.2 Shell". The menu bar includes File, Edit, Shell, Debug, Options, Window, and Help. The main area displays the output of a script. It starts with the Python version information: "Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32". It then says "Type "help", "copyright", "credits" or "license()" for more information. The script itself is named "practice.py" and contains code to connect to a MySQL database and print the names of all tables. The output shows the connection was successful and lists three tables: 'dept', 'emp', and 'student'.

```
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\MradulaClass\WorkSheet\class 12\computer\practice_comp_codes\practice.py
connection successful
('dept',)
('emp',)
('student',)
>>> |
```

8. inserting values into a table(already existing)

```
import mysql.connector as mycon
con=mycon.connect(host="localhost",user="root",passwd="mradula2003@",database="prac")
if con.is_connected():
    print("connection successful")
cur=con.cursor()
str1="insert into dept values(10,'accounting','new york')"
cur.execute(str1)
con.commit()
print("record inserted successfully")
```

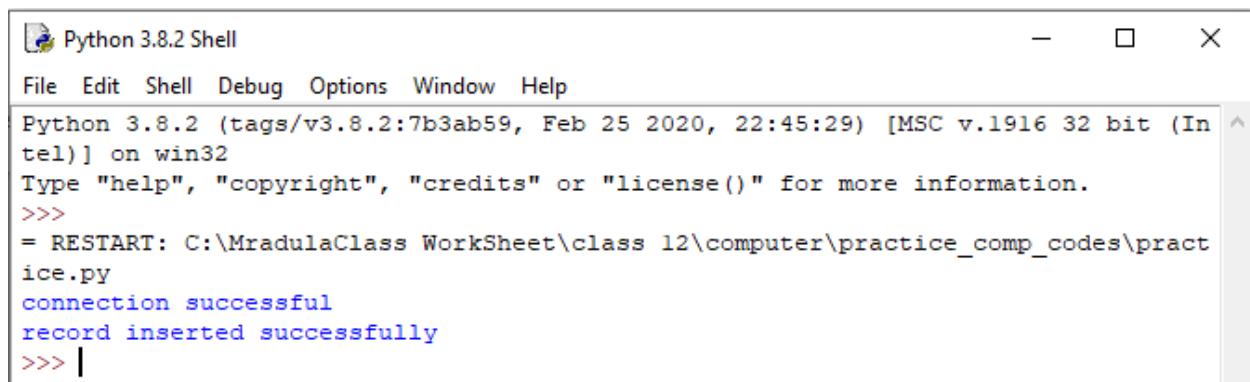


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Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (In tel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice_comp_codes\practice.py
connection successful
record inserted successfully
>>> |
```

9. inserting more than one record into a table

```
import mysql.connector as mycon
con=mycon.connect(host="localhost",user="root",passwd="mradula2003@",database="prac")
if con.is_connected():
    print("connection successful")
cur=con.cursor()
str1="insert into dept values(20,'research','dallas'),(30,'sales','chicago')"
cur.execute(str1)
con.commit()
print("record inserted successfully")
```

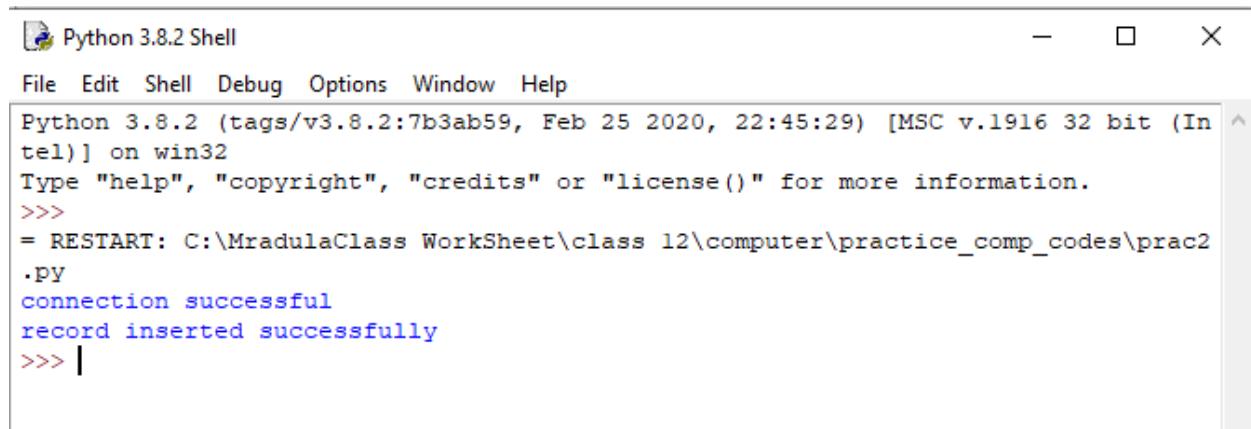


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Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice_comp_codes\practice.py
connection successful
record inserted successfully
>>> |
```

#### 10. ...inserting values into a table (old format using %s)

```
import mysql.connector as mycon
con=mycon.connect(host="localhost",user="root",passwd="mradula2003@",database="prac")
if con.is_connected():
    print("connection successful")
cur=con.cursor()
cur.execute("insert into student values (%s, %s, %s, %s, %s, %s)", (1245, 'Arush', 'M',67,
'2003-10-04', 'science', 9876543210))
con.commit()
print("record inserted successfully")
```

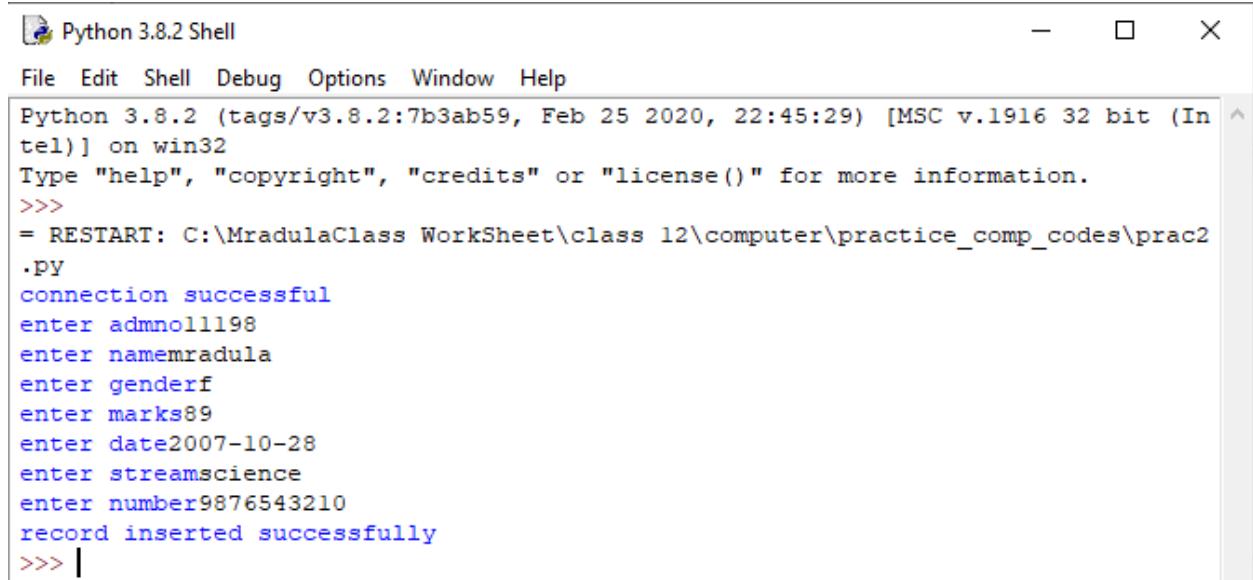


The screenshot shows the Python 3.8.2 Shell window. The title bar says "Python 3.8.2 Shell". The menu bar includes File, Edit, Shell, Debug, Options, Window, and Help. The main window displays the following text:

```
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice_comp_codes\prac2
.py
connection successful
record inserted successfully
>>> |
```

## 11. inserting dynamic values into a table(already existing)

```
import mysql.connector as mycon
con=mycon.connect(host="localhost",user="root",passwd="mradula2003@",database="prac")
if con.is_connected():
    print("connection successful")
cur=con.cursor()
ad=int(input("enter admno"))
nm=input("enter name")
gen=input("enter gender")
mk=eval(input("enter marks"))
db=input("enter date")
st=input("enter stream")
mob=int(input("enter number"))
cur.execute("insert into student values (%s, %s, %s, %s, %s, %s, %s)", (ad, nm, gen, mk, db, st,
mob))
con.commit()
print("record inserted successfully")
```

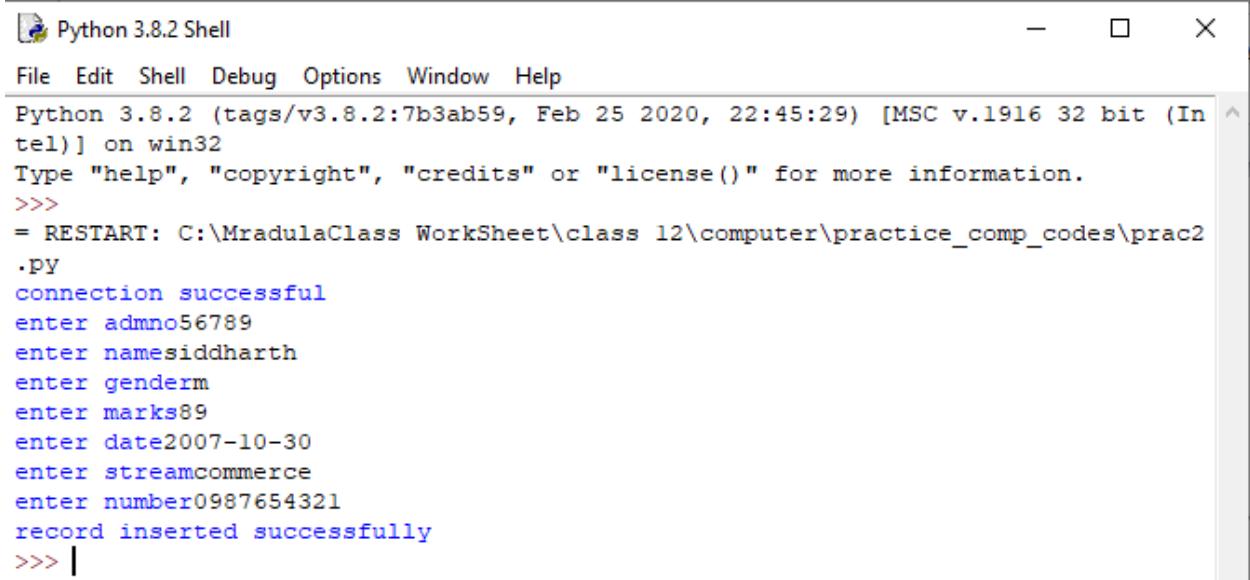


The screenshot shows the Python 3.8.2 Shell window. The title bar says "Python 3.8.2 Shell". The menu bar includes File, Edit, Shell, Debug, Options, Window, and Help. The main area displays the Python interpreter's prompt and the execution of the script. The output shows the connection being successful, the user entering various fields (admno, name, gender, marks, date, stream, number), and the final message "record inserted successfully".

```
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (In tel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\MradulaClass\WorkSheet\class 12\computer\practice_comp_codes\prac2.py
connection successful
enter admno11198
enter name mradula
enter gender f
enter marks 89
enter date 2007-10-28
enter stream science
enter number 9876543210
record inserted successfully
>>> |
```

## 12. inserting dynamic values into a table (new format)

```
import mysql.connector as mycon
con=mycon.connect(host="localhost",user="root",passwd="mradula2003@",database="prac")
if con.is_connected():
    print("connection successful")
cur=con.cursor()
ad=int(input("enter admno"))
nm=input("enter name")
gen=input("enter gender")
mk=eval(input("enter marks"))
db=input("enter date")
st=input("enter stream")
mob=int(input("enter number"))
cur.execute("insert into student values ({}, '{}', '{}', {}, '{}', '{}', '{}', '{}')".format(ad, nm, gen, mk, db, st, mob))
con.commit()
print("record inserted successfully")
```



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```
File Edit Shell Debug Options Window Help
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice_comp_codes\prac2.py
connection successful
enter admno56789
enter namesiddharth
enter genderm
enter marks89
enter date2007-10-30
enter streamcommerce
enter number0987654321
record inserted successfully
>>> |
```

### 13. fetching records row wise from a table

```
import mysql.connector as mycon
con=mycon.connect(host="localhost",user="root",passwd="mradula2003@",database="prac")
if con.is_connected():
    print("connection successful")
cur=con.cursor()
cur.execute("select * from student")
data=cur.fetchall()
for i in data:
    print(i)
```

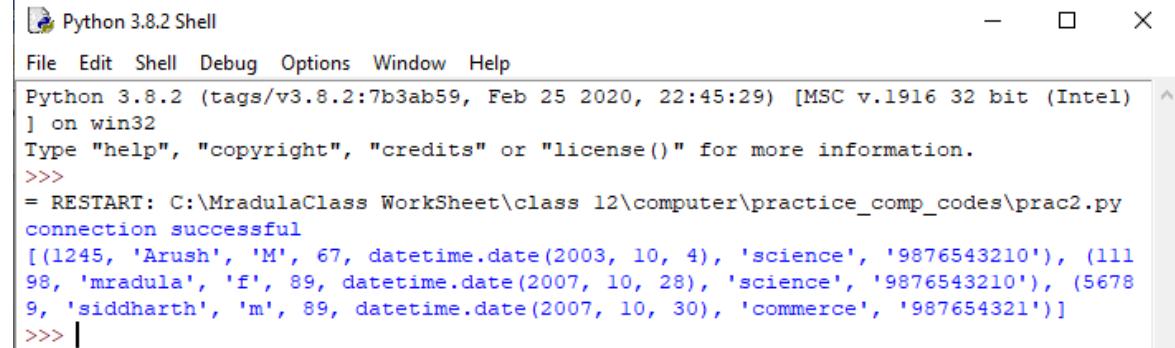
Python 3.8.2 Shell

---

```
File Edit Shell Debug Options Window Help
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice_comp_codes\prac2.py
connection successful
(1245, 'Arush', 'M', 67, datetime.date(2003, 10, 4), 'science', '9876543210')
(11198, 'mradula', 'f', 89, datetime.date(2007, 10, 28), 'science', '9876543210')
(56789, 'siddharth', 'm', 89, datetime.date(2007, 10, 30), 'commerce', '9876543211')
>>> |
```

#### 14. fetching records from a table(already existing)

```
import mysql.connector as mycon
con=mycon.connect(host="localhost",user="root",passwd="mradula2003@",database="prac")
if con.is_connected():
    print("connection successful")
cur=con.cursor()
cur.execute("select * from student")
data=cur.fetchall()
print(data)
```

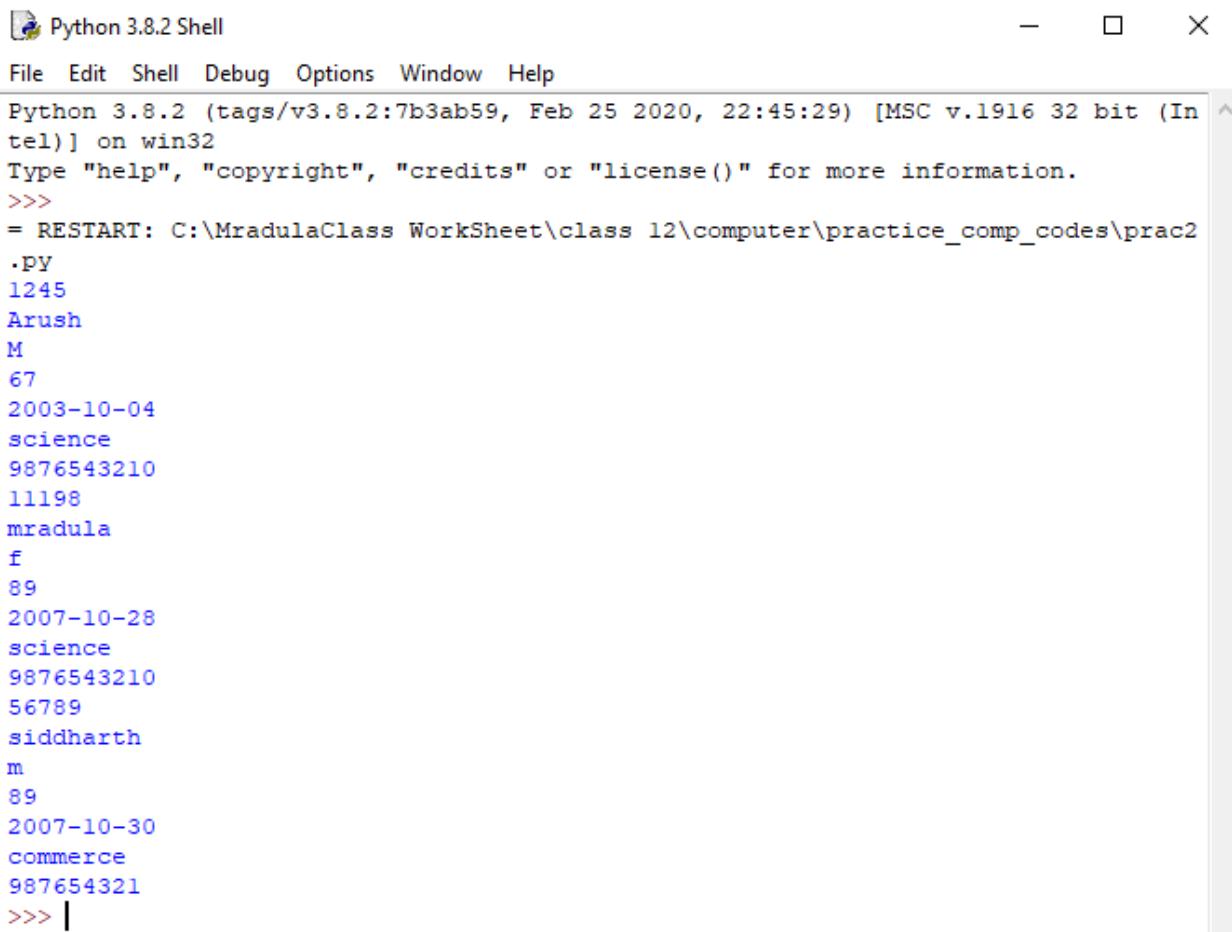


The screenshot shows the Python 3.8.2 Shell interface. The title bar says "Python 3.8.2 Shell". The menu bar includes File, Edit, Shell, Debug, Options, Window, and Help. The main window displays the following text:

```
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)]
] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice_comp_codes\prac2.py
connection successful
[(1245, 'Arush', 'M', 67, datetime.date(2003, 10, 4), 'science', '9876543210'), (111
98, 'mradula', 'f', 89, datetime.date(2007, 10, 28), 'science', '9876543210'), (5678
9, 'siddharth', 'm', 89, datetime.date(2007, 10, 30), 'commerce', '987654321)]
```

## 15. fetching records row-value wise from a table

```
import mysql.connector as mycon
con=mycon.connect(host="localhost",user="root",passwd="mradula2003@",database="prac")
cur=con.cursor()
cur.execute("select * from student")
data=cur.fetchall()
for row in data:
    for attr in row:
        print(attr,end='\t')
    print()
```



The screenshot shows the Python 3.8.2 Shell interface. The title bar says "Python 3.8.2 Shell". The menu bar includes File, Edit, Shell, Debug, Options, Window, and Help. The main window displays the following text:

```
File Edit Shell Debug Options Window Help
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (In
tel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\MradulaClass\WorkSheet\class 12\computer\practice_comp_codes\prac2
.py
1245
Arush
M
67
2003-10-04
science
9876543210
11198
mradula
f
89
2007-10-28
science
9876543210
56789
siddharth
m
89
2007-10-30
commerce
987654321
>>> |
```

## 16. fetching records using fetchone()

```
import mysql.connector as mycon
con=mycon.connect(host="localhost",user="root",passwd="mradula2003@",database="prac")
if con.is_connected():
    print("connection successful")
cur=con.cursor()
data=cur.execute("select * from student")
print(data)
row=cur.fetchone()
while row is not None:
    print(row)
    ctr=cur.rowcount
    print("number of records read:",ctr)
    row=cur.fetchone()
```



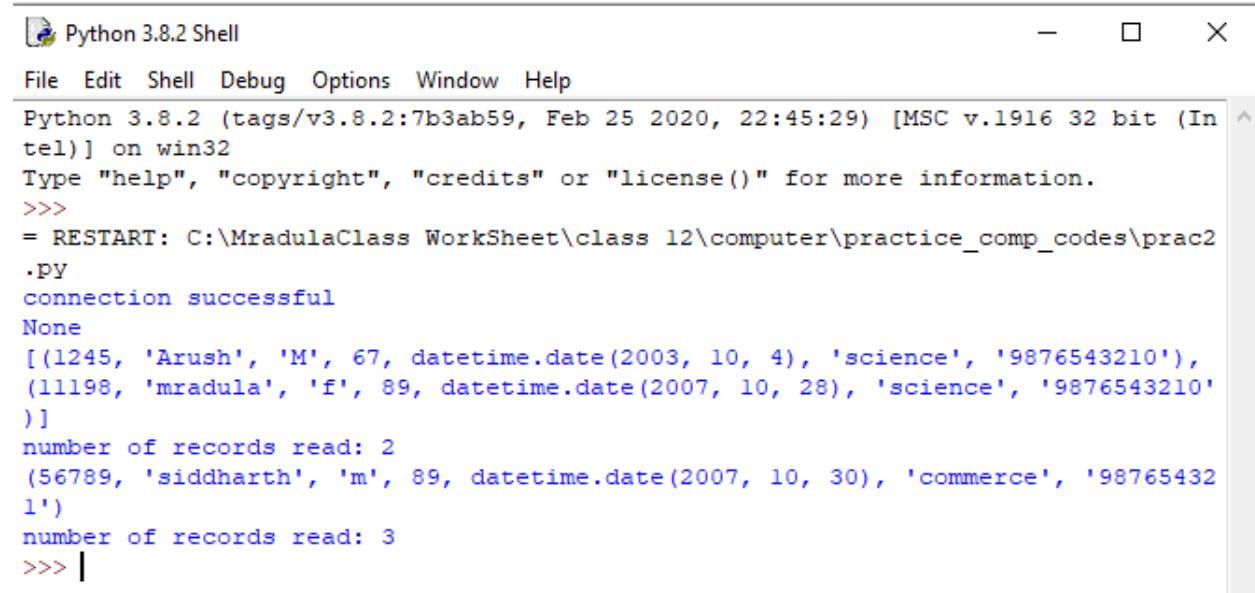
Python 3.8.2 Shell

File Edit Shell Debug Options Window Help

```
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice_comp_codes\prac2.py
connection successful
None
(1245, 'Arush', 'M', 67, datetime.date(2003, 10, 4), 'science', '9876543210')
number of records read: 1
(11198, 'mradula', 'f', 89, datetime.date(2007, 10, 28), 'science', '9876543210')
number of records read: 2
(56789, 'siddharth', 'm', 89, datetime.date(2007, 10, 30), 'commerce', '987654321')
number of records read: 3
>>> |
```

## 17. fetching records using fetchmany()

```
import mysql.connector as mycon
con=mycon.connect(host="localhost",user="root",passwd="mradula2003@",database="prac")
if con.is_connected():
    print("connection successful")
cur=con.cursor()
data=cur.execute("select * from student")
print(data)
row=cur.fetchmany(2)
while row is not None:
    print(row)
    ctr=cur.rowcount
    print("number of records read:",ctr)
    row=cur.fetchone()
```



The screenshot shows the Python 3.8.2 Shell window. The title bar says "Python 3.8.2 Shell". The menu bar includes File, Edit, Shell, Debug, Options, Window, and Help. The main window displays the following text:

```
File Edit Shell Debug Options Window Help
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (In
tel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice_comp_codes\prac2
.py
connection successful
None
[(1245, 'Arush', 'M', 67, datetime.date(2003, 10, 4), 'science', '9876543210'),
(11198, 'mradula', 'f', 89, datetime.date(2007, 10, 28), 'science', '9876543210')
]
number of records read: 2
(56789, 'siddharth', 'm', 89, datetime.date(2007, 10, 30), 'commerce', '98765432
1')
number of records read: 3
>>> |
```

## 18. ROWCOUNT() METHOD

```
import mysql.connector as con
mycon=con.connect(host="localhost",user="root",passwd="mradula2003@",database="prac")
if mycon.is_connected():
    print("CONNECTION SUCCESSFUL")
cur=mycon.cursor()
cur.execute("select * from student")
data=cur.fetchall()
for row in data:
    print(row)
ctr=cur.rowcount
print("number of records read:",ctr)
```

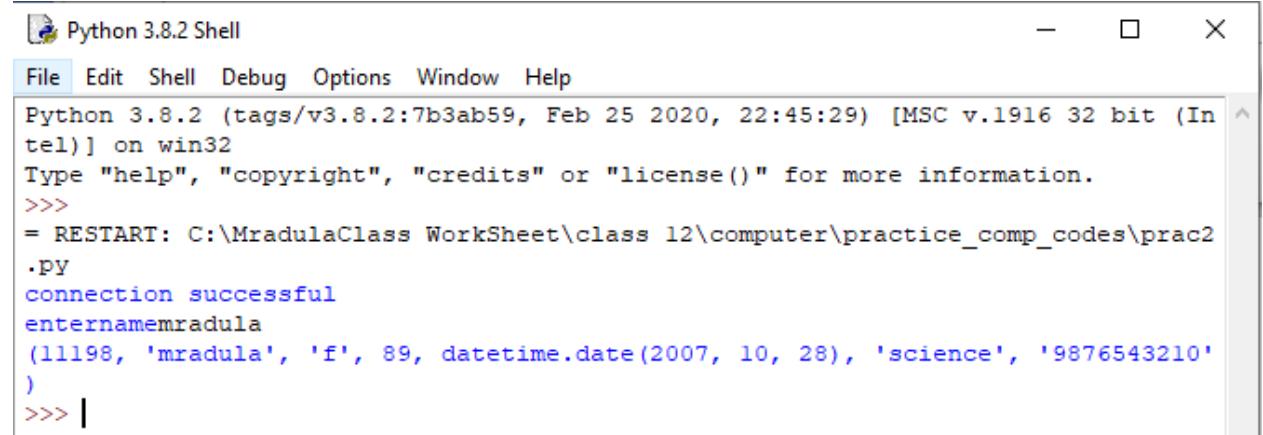
Python 3.8.2 Shell

File Edit Shell Debug Options Window Help

```
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice_comp_codes\prac2.py
CONNECTION SUCCESSFUL
(1245, 'Arush', 'M', 67, datetime.date(2003, 10, 4), 'science', '9876543210')
(11198, 'mradula', 'f', 89, datetime.date(2007, 10, 28), 'science', '9876543210')
(56789, 'siddharth', 'm', 89, datetime.date(2007, 10, 30), 'commerce', '987654321')
number of records read: 3
>>> |
```

19. fetching record(s) from a table[search by sname]

```
import mysql.connector as mycon
con=mycon.connect(host="localhost",user="root",passwd="mradula2003@",database="prac")
if con.is_connected():
    print("connection successful")
cur=con.cursor()
nm=input("entername")
cur.execute("select * from student where name='"+nm+"'")
for x in cur:
    print(x)
```

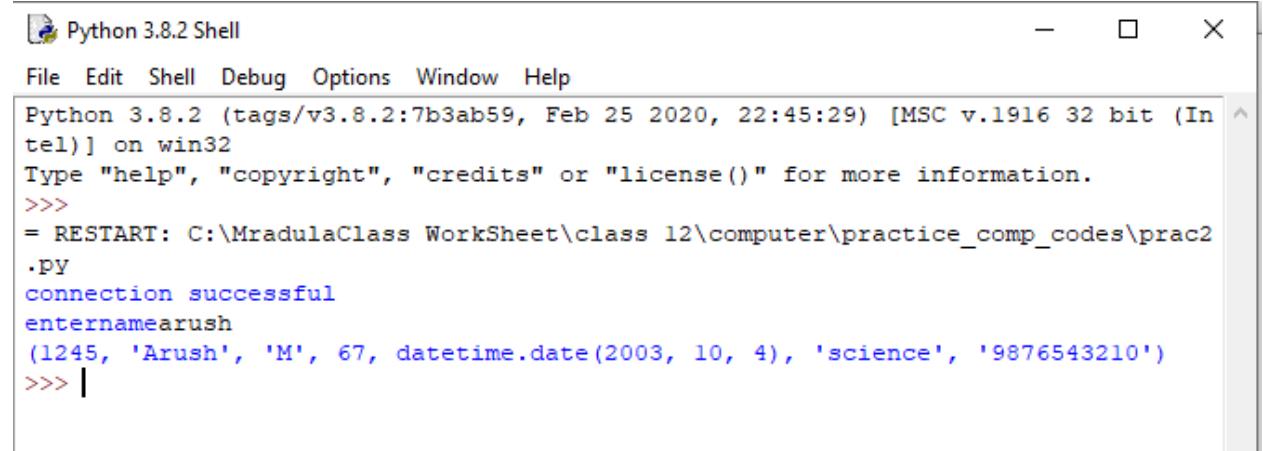


The screenshot shows the Python 3.8.2 Shell window. The menu bar includes File, Edit, Shell, Debug, Options, Window, and Help. The title bar says "Python 3.8.2 Shell". The shell area displays the following text:

```
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\MradulaClass\WorkSheet\class 12\computer\practice_comp_codes\prac2.py
connection successful
enternamemradula
(11198, 'mradula', 'f', 89, datetime.date(2007, 10, 28), 'science', '9876543210')
>>> |
```

## 20. String template with % formatting[search record]

```
import mysql.connector as mycon
con=mycon.connect(host="localhost",user="root",passwd="mradula2003@",database="prac")
if con.is_connected():
    print("connection successful")
cur=con.cursor()
nm=input("entername")
cur.execute("select * from student where name='%s'"%nm)
for x in cur:
    print(x)
```

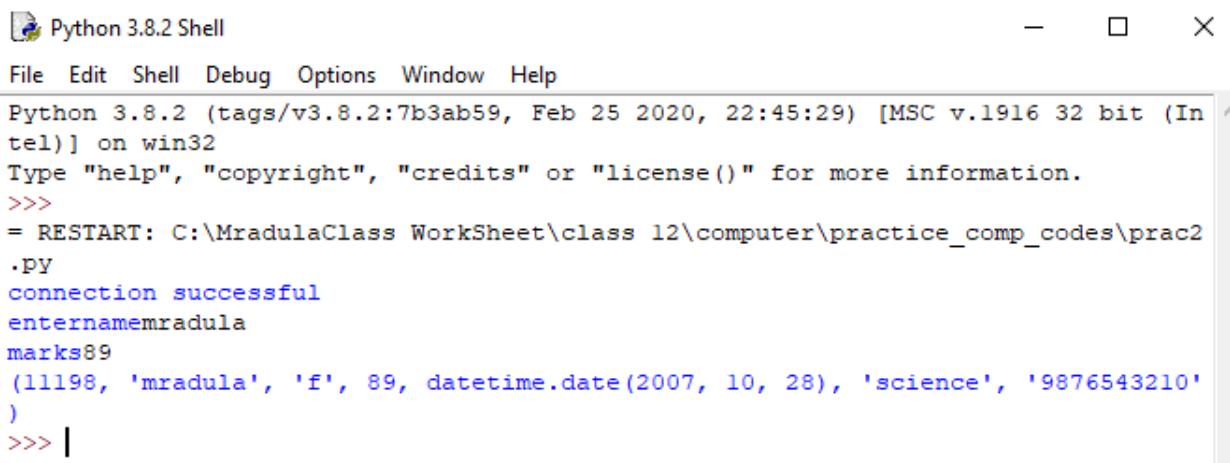


The screenshot shows the Python 3.8.2 Shell window. The menu bar includes File, Edit, Shell, Debug, Options, Window, and Help. The main area displays the Python interpreter's prompt (>>>) followed by the code execution and its output. The output shows a connection message, the entered name 'earush', and a tuple representing a database record.

```
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice_comp_codes\prac2.py
connection successful
enternameearush
(1245, 'Arush', 'M', 67, datetime.date(2003, 10, 4), 'science', '9876543210')
>>> |
```

## 21. String template with % formatting[search record]...2 parameters

```
import mysql.connector as mycon
con=mycon.connect(host="localhost",user="root",passwd="mradula2003@",database="prac")
if con.is_connected():
    print("connection successful")
cur=con.cursor()
nm=input("entername")
mk=eval(input("marks"))
cur.execute("select * from student where name='%s' and marks=%s " %(nm,mk))
for x in cur:
    print(x)
```

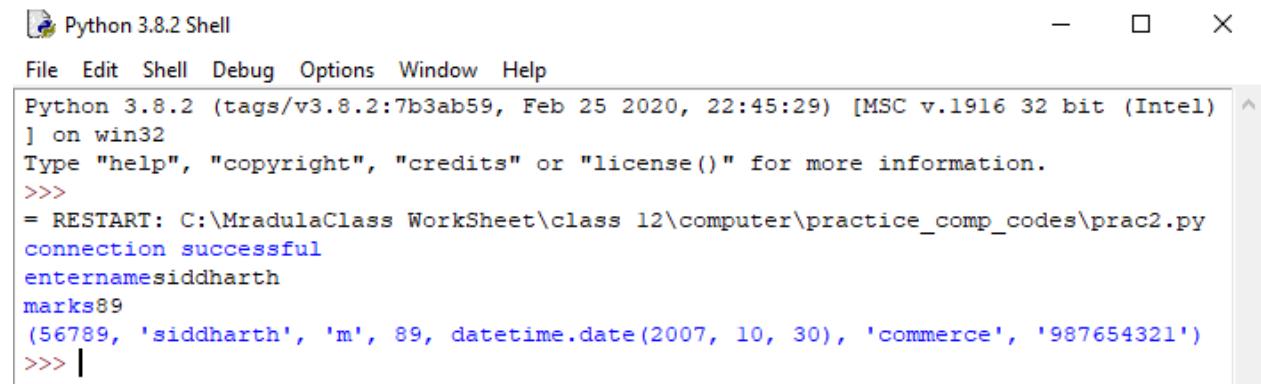


The screenshot shows a Python 3.8.2 Shell window. The menu bar includes File, Edit, Shell, Debug, Options, Window, and Help. The shell area displays the following text:

```
File Edit Shell Debug Options Window Help
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (In
tel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\MradulaClass\WorkSheet\class 12\computer\practice_comp_codes\prac2
.py
connection successful
enternamemradula
marks89
(11198, 'mradula', 'f', 89, datetime.date(2007, 10, 28), 'science', '9876543210'
)
>>> |
```

## 22. String template with % formatting[search record]...2 parameters [passing tuple to execute()]

```
import mysql.connector as mycon
con=mycon.connect(host="localhost",user="root",passwd="mradula2003@",database="prac")
if con.is_connected():
    print("connection successful")
cur=con.cursor()
nm=input("entername")
mk=eval(input("marks"))
input_data=(nm,mk)
query="select * from student where name=%s and marks=%s "
cur.execute(query,input_data)
for x in cur:
    print(x)
```

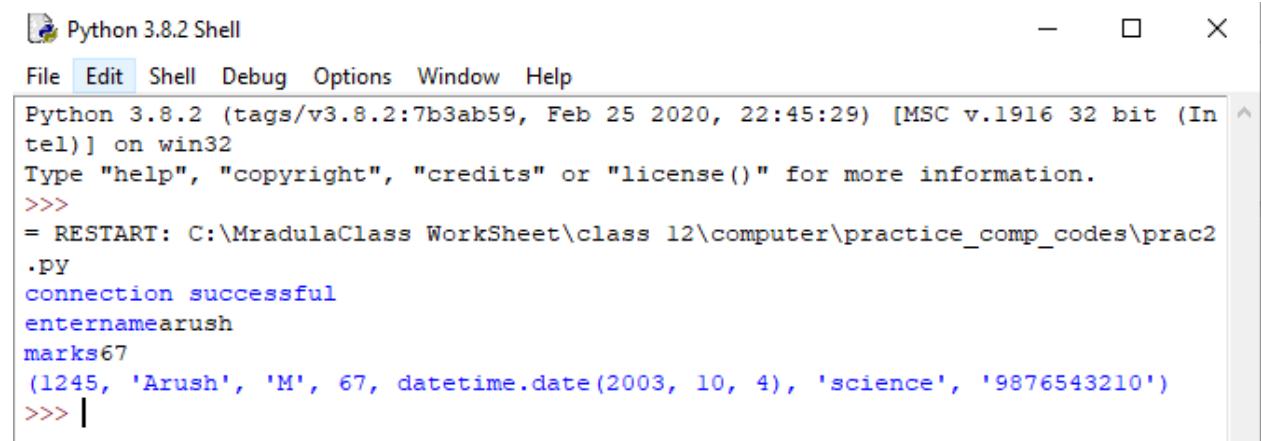


The screenshot shows a Python 3.8.2 Shell window. The menu bar includes File, Edit, Shell, Debug, Options, Window, and Help. The title bar says "Python 3.8.2 Shell". The shell area displays the following output:

```
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)]
] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice_comp_codes\prac2.py
connection successful
enternamesiddharth
marks89
(56789, 'siddharth', 'm', 89, datetime.date(2007, 10, 30), 'commerce', '987654321')
>>> |
```

### 23. String template with % formatting[.format() method]

```
import mysql.connector as mycon
con=mycon.connect(host="localhost",user="root",passwd="mradula2003@",database="prac")
if con.is_connected():
    print("connection successful")
cur=con.cursor()
nm=input("entername")
mk=eval(input("marks"))
query="select * from student where name='{}' and marks={}" .format(nm,mk)
cur.execute(query)
for x in cur:
    print(x)
```

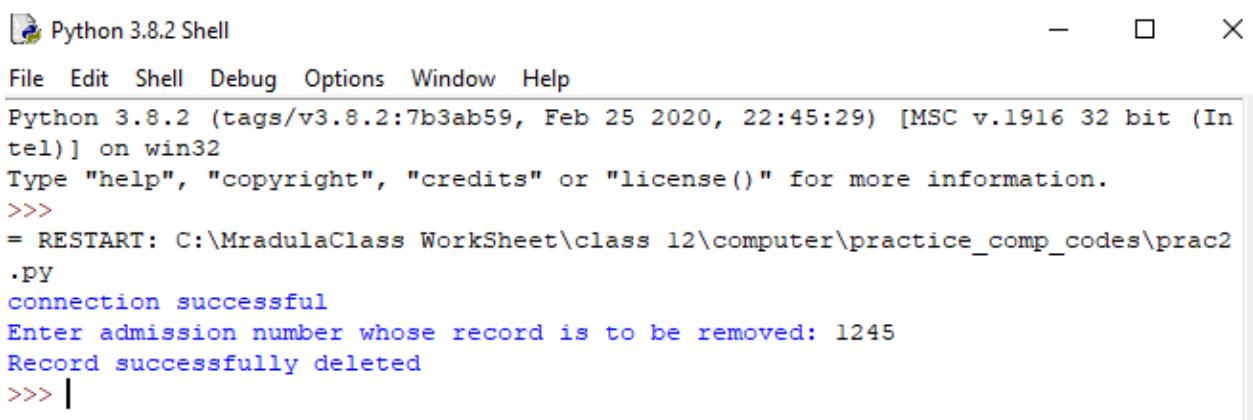


The screenshot shows the Python 3.8.2 Shell interface. The title bar says "Python 3.8.2 Shell". The menu bar includes File, Edit, Shell, Debug, Options, Window, and Help. The main window displays the following text:

```
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice_comp_codes\prac2
.py
connection successful
enternamearush
marks67
(1245, 'Arush', 'M', 67, datetime.date(2003, 10, 4), 'science', '9876543210')
>>> |
```

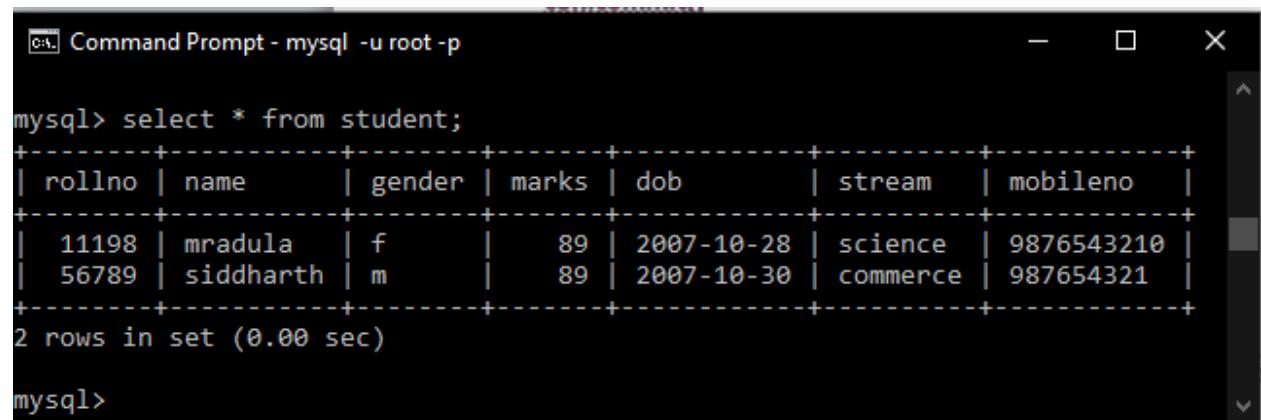
#### 24. Deleting a record (DML command)

```
import mysql.connector as mycon
con=mycon.connect(host="localhost",user="root",passwd="mradula2003@",database="prac")
if con.is_connected():
    print("connection successful")
    cur=con.cursor()
    adm = input("Enter admission number whose record is to be removed: ")
    query = "delete from student where rollno={}".format(adm)
    cur.execute(query)
    con.commit()
    print("Record successfully deleted")
    cur.close()
    con.close()
else:
    print("Something is wrong in connection")
```



The screenshot shows the Python 3.8.2 Shell interface. The window title is "Python 3.8.2 Shell". The menu bar includes File, Edit, Shell, Debug, Options, Window, and Help. The shell area displays the following output:

```
File Edit Shell Debug Options Window Help
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\MradulaClass\WorkSheet\class 12\computer\practice_comp_codes\prac2.py
connection successful
Enter admission number whose record is to be removed: 1245
Record successfully deleted
>>> |
```



The screenshot shows a Command Prompt window titled "Command Prompt - mysql -u root -p". The MySQL prompt is visible. The user has run the following command:

```
mysql> select * from student;
```

The resulting table output is:

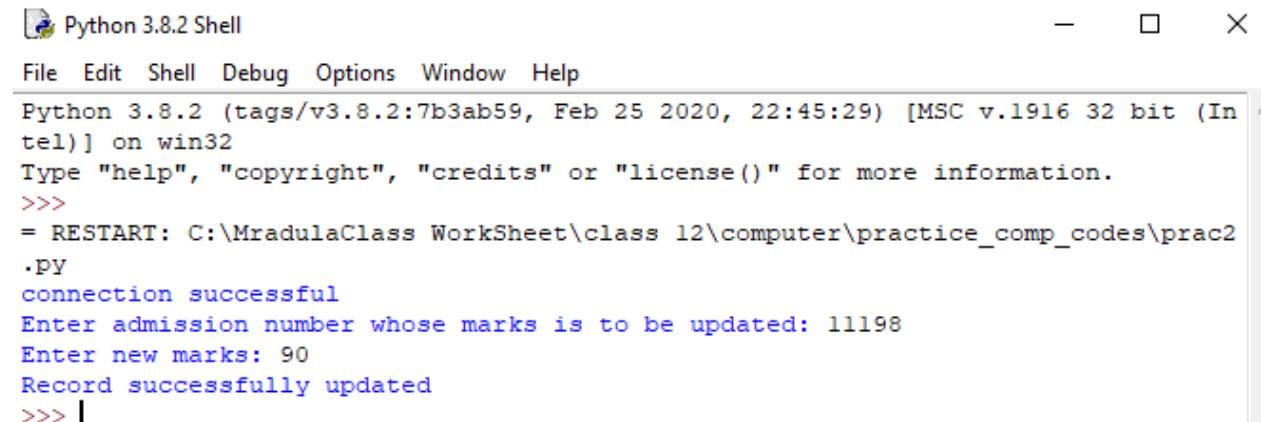
rollno	name	gender	marks	dob	stream	mobileno
11198	mradula	f	89	2007-10-28	science	9876543210
56789	siddharth	m	89	2007-10-30	commerce	987654321

2 rows in set (0.00 sec)

```
mysql>
```

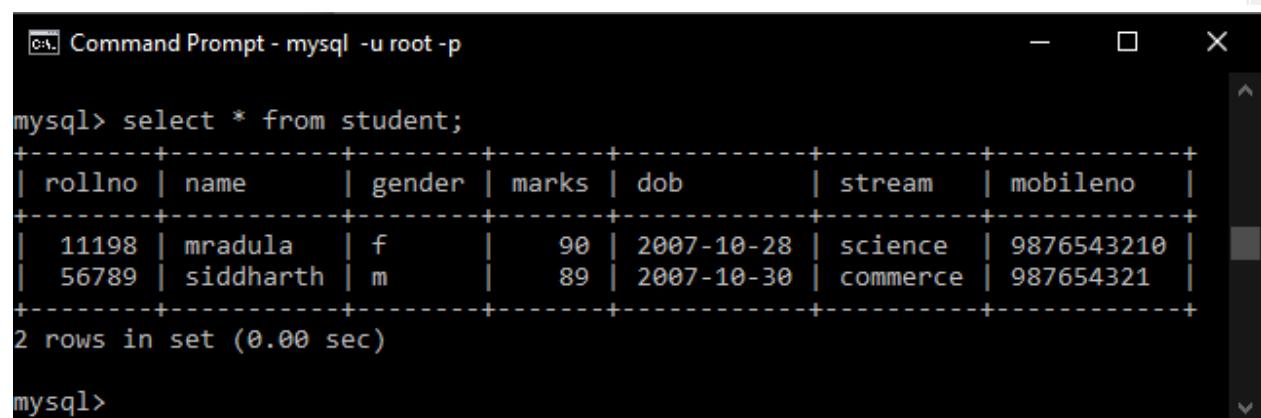
## 25. Updating a record (DML command)

```
import mysql.connector as mycon
con=mycon.connect(host="localhost",user="root",passwd="mradula2003@",database="prac")
if con.is_connected():
    print("connection successful")
    cur=con.cursor()
    adm = eval(input("Enter admission number whose marks is to be updated: "))
    mk=eval(input("Enter new marks: "))
    query = "update student set marks={} where rollno={}".format(mk,adm)
    cur.execute(query)
    con.commit()
    print("Record successfully updated")
    cur.close()
    con.close()
else:
    print("Something is wrong in connection")
```



The screenshot shows the Python 3.8.2 Shell window. The title bar says "Python 3.8.2 Shell". The menu bar includes File, Edit, Shell, Debug, Options, Window, and Help. The main area displays the Python interpreter's prompt and the script's output:

```
File Edit Shell Debug Options Window Help
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\MradulaClass\WorkSheet\class 12\computer\practice_comp_codes\prac2.py
connection successful
Enter admission number whose marks is to be updated: 11198
Enter new marks: 90
Record successfully updated
>>> |
```



The screenshot shows the Command Prompt window. The title bar says "Command Prompt - mysql -u root -p". The MySQL prompt is shown, along with the results of a query:

```
mysql> select * from student;
+-----+-----+-----+-----+-----+
| rollno | name   | gender | marks | dob      | stream  | mobileno |
+-----+-----+-----+-----+-----+
| 11198  | mradula | f     | 90    | 2007-10-28 | science | 9876543210 |
| 56789  | siddharth | m    | 89    | 2007-10-30 | commerce | 9876543211 |
+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)

mysql>
```