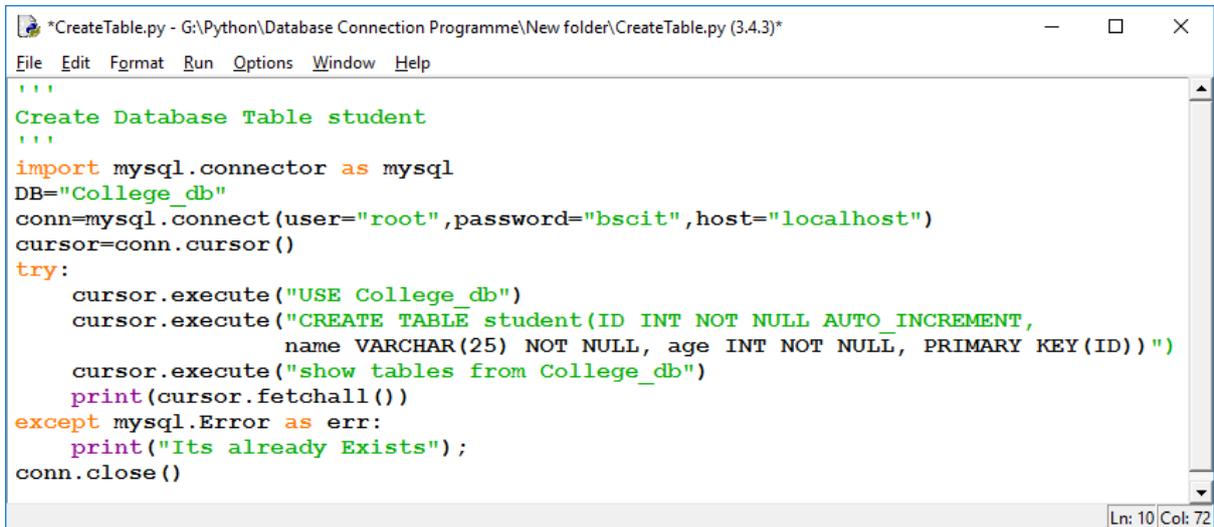


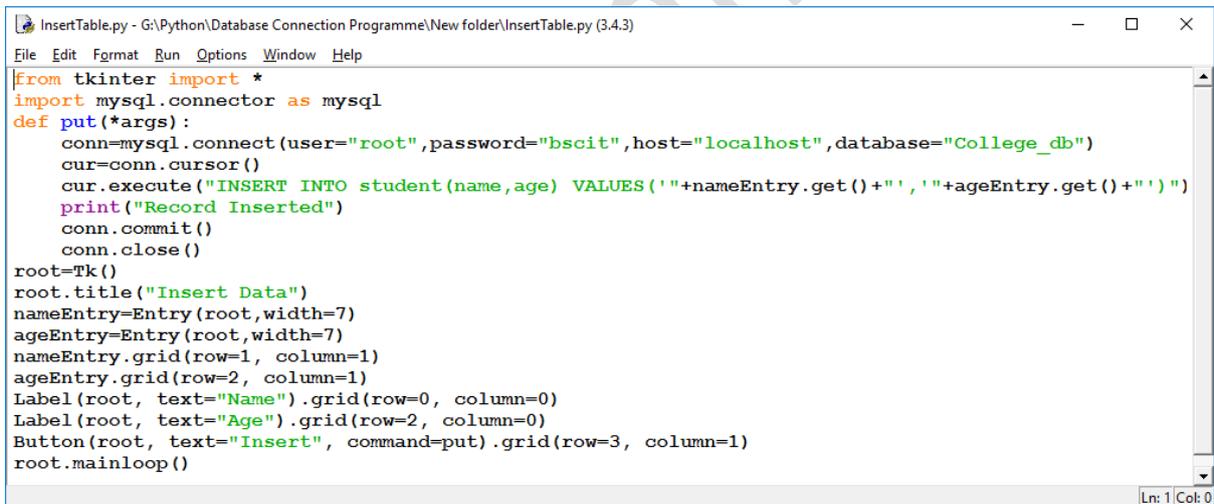
## PYTHON DATABASE PROGRAMMING

Design a database application to create table.



```
*CreateTable.py - G:\Python\Database Connection Programme\New folder\CreateTable.py (3.4.3)*
File Edit Format Run Options Window Help
'''
Create Database Table student
'''
import mysql.connector as mysql
DB="College_db"
conn=mysql.connect(user="root",password="bscit",host="localhost")
cursor=conn.cursor()
try:
    cursor.execute("USE College_db")
    cursor.execute("CREATE TABLE student(ID INT NOT NULL AUTO_INCREMENT,
        name VARCHAR(25) NOT NULL, age INT NOT NULL, PRIMARY KEY (ID))")
    cursor.execute("show tables from College_db")
    print(cursor.fetchall())
except mysql.Error as err:
    print("Its already Exists");
conn.close()
Ln: 10 Col: 72
```

Design a database application to create python GUI form to accept student details and then insert it into the student table.



```
InsertTable.py - G:\Python\Database Connection Programme\New folder\InsertTable.py (3.4.3)
File Edit Format Run Options Window Help
from tkinter import *
import mysql.connector as mysql
def put(*args):
    conn=mysql.connect(user="root",password="bscit",host="localhost",database="College_db")
    cur=conn.cursor()
    cur.execute("INSERT INTO student(name,age) VALUES ('"+nameEntry.get()+"','"+ageEntry.get()+"")")
    print("Record Inserted")
    conn.commit()
    conn.close()
root=Tk()
root.title("Insert Data")
nameEntry=Entry(root,width=7)
ageEntry=Entry(root,width=7)
nameEntry.grid(row=1, column=1)
ageEntry.grid(row=2, column=1)
Label(root, text="Name").grid(row=0, column=0)
Label(root, text="Age").grid(row=2, column=0)
Button(root, text="Insert", command=put).grid(row=3, column=1)
root.mainloop()
Ln: 1 Col: 0
```

Design a database application to update student record.

```
UpdateTable.py - G:\Python\Database Connection Programme\New folder\UpdateTable.py (3.4.3)
File Edit Format Run Options Window Help
from tkinter import *
import mysql.connector as mysql
def put():
    conn=mysql.connect(user="root",password="bscit",host="localhost",database="College_db")
    cur=conn.cursor()
    cur.execute("Update student SET age = 20 WHERE id="+idEntry.get()+"")
    print("Record Updated")
    conn.commit()
    conn.close()
root=Tk()
root.title("Update Data")
Label(root, text="ID").grid(row=0, column=0)
idEntry=Entry(root,width=10)

idEntry.grid(row=0, column=1)

Button(root, text="Update", command=put).grid(row=0, column=2)
root.mainloop()
Ln: 1 Col: 0
```

Design a database application to search the specified record from the database.

```
SearchTable.py - G:\Python\Database Connection Programme\New folder\SearchTable.py (3.4.3)
File Edit Format Run Options Window Help
from tkinter import *
import mysql.connector as mysql
def get():
    conn=mysql.connect(user="root",password="bscit",host="localhost",database="College_db")
    cur=conn.cursor()
    cur.execute("SELECT * FROM student WHERE id="+idEntry.get()+"")
    for (id,name,age) in cur:
        print("Id: {},Name: {},Age: {}".format(id,name,age))
    print("Done")
    conn.commit()
    conn.close()
root=Tk()
root.title("Search Data")
Label(root, text="ID").grid(row=0, column=0)
idEntry=Entry(root,width=10)

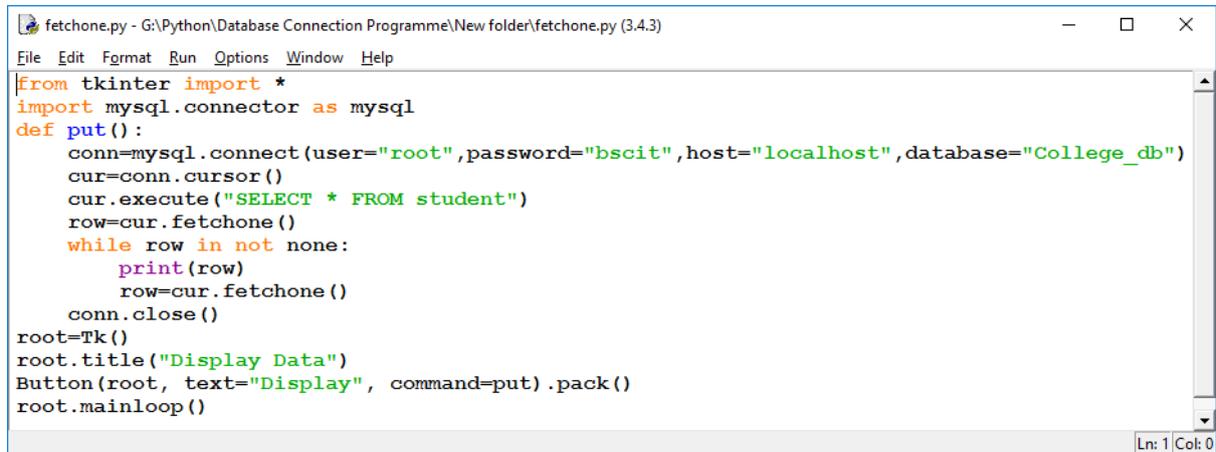
idEntry.grid(row=0, column=1)

Button(root, text="Search", command=get).grid(row=0, column=2)
root.mainloop()
Ln: 1 Col: 0
```

Design a database application to display records of student table.

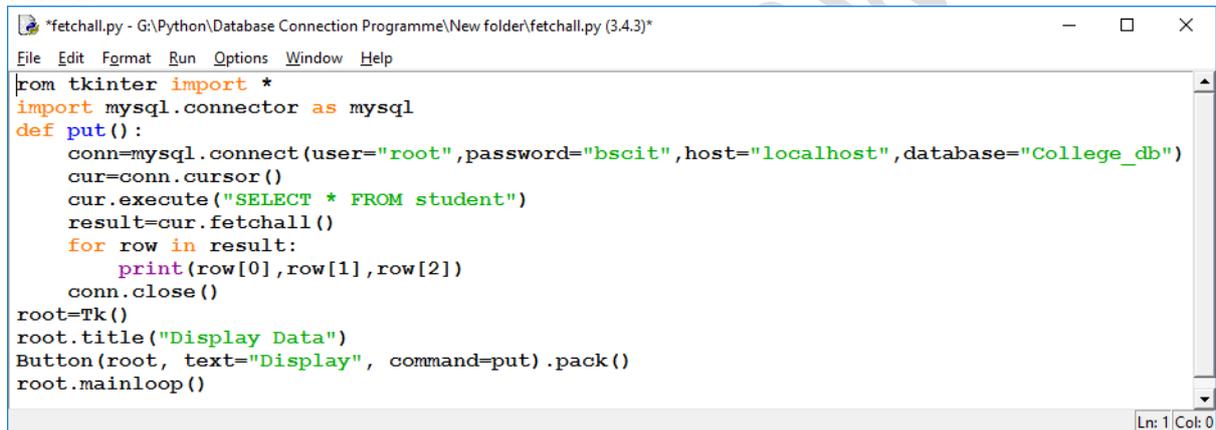
```
DisplayRecord.py - G:\Python\Database Connection Programme\New folder\DisplayRecord.py (3.4.3)
File Edit Format Run Options Window Help
from tkinter import *
import mysql.connector as mysql
def put():
    conn=mysql.connect(user="root",password="bscit",host="localhost",database="College_db")
    cur=conn.cursor()
    cur.execute("SELECT * FROM student")
    for (id,name,age) in cur:
        print("Id: {},Name: {},Age: {}".format(id,name,age))
    print("Done")
    conn.commit()
    conn.close()
root=Tk()
root.title("Display Data")
Button(root, text="Display", command=put).pack()
root.mainloop()
Ln: 1 Col: 1
```

Design a database application to display records of student table using a fetchone() method of cursor.



```
fetchone.py - G:\Python\Database Connection Programme\New folder\fetchone.py (3.4.3)
File Edit Format Run Options Window Help
from tkinter import *
import mysql.connector as mysql
def put():
    conn=mysql.connect(user="root",password="bscit",host="localhost",database="College_db")
    cur=conn.cursor()
    cur.execute("SELECT * FROM student")
    row=cur.fetchone()
    while row in not none:
        print(row)
        row=cur.fetchone()
    conn.close()
root=Tk()
root.title("Display Data")
Button(root, text="Display", command=put).pack()
root.mainloop()
Ln: 1 Col: 0
```

Design a database application to display records of student table using a fetchall() method of cursor.



```
*fetchall.py - G:\Python\Database Connection Programme\New folder\fetchall.py (3.4.3)*
File Edit Format Run Options Window Help
from tkinter import *
import mysql.connector as mysql
def put():
    conn=mysql.connect(user="root",password="bscit",host="localhost",database="College_db")
    cur=conn.cursor()
    cur.execute("SELECT * FROM student")
    result=cur.fetchall()
    for row in result:
        print(row[0],row[1],row[2])
    conn.close()
root=Tk()
root.title("Display Data")
Button(root, text="Display", command=put).pack()
root.mainloop()
Ln: 1 Col: 0
```