18. ILLUSTRATION OF CONNECTIVITY PROGRAMMING-II

Integrate SQL with python by importing the MYSQL module and to implement the DML commands(INSERT and SELECT). Populate the STUDENT(Roll, Name, Stream, Section) table with 4 records of your choice using INSERT query and display all the records by using the appropriate Query

Source Code

```
import mysql.connector as msc

try: # Using a try block to catch errors
    conn = msc.connect(host='localhost',user='root',password='password',datab

    if (conn.is_connected()): #checking if the connection is established
        print('Connected')
    else:
        print('Connection not established')

    cur = conn.cursor()

    while True:
        print("===========================================")
        print("What would you like to do?")
        print("""
        [1] Insert new record
        [2] Display the table
        [3] Exit
        """)

        ch = input("Enter your choice[1/2/3]: ")

        if ch == "1":
            roll = input("Enter roll no of student: ")
            name = input("Enter name of student: ")
            stream = input("Enter stream of student: ")
            section = input("Enter section of student: ")

            cur.execute("insert into student values({}, '{}', '{}', '{}')".fo

            conn.commit()
            print("New record inserted into table")
```

```
        elif ch == "2":
            cur.execute('select * from student')
            rows = cur.fetchall() #retrieving data from the result set

            print('Data from the student table is as follows:\n')

            for i in rows: #displaying the table
                print(i[0],'    ',i[1],'    ',i[2],'    ',i[3])

        elif ch == "3":
            print("[ Exiting ]") # Break from the loop to exit
            break

        else:
            print("[ Invalid Choice ]") # In case user inputs a choice that w

    cur.close()
    conn.close()

except Exception as e:
    print(e)
```

OUTPUT

```
Connected
==========================================
What would you like to do?

        [1] Insert new record
        [2] Display the table
        [3] Exit

Enter your choice[1/2/3]: 2
Data from the student table is as follows:

1       Alice       COMPUTER SCIENCE       A
2       Bob       COMMERCE       B
3       Charlie       HUMANITIES       C
4       David       COMPUTER SCIENCE       D
==========================================
What would you like to do?

        [1] Insert new record
        [2] Display the table
        [3] Exit

Enter your choice[1/2/3]: 1
Enter roll no of student: 5
Enter name of student: Ellie
```

```
Enter stream of student: COMMERCE
Enter section of student: C
New record inserted into table
==========================================
What would you like to do?

        [1] Insert new record
        [2] Display the table
        [3] Exit

Enter your choice[1/2/3]: 2
Data from the student table is as follows:

1       Alice       COMPUTER SCIENCE       A
2       Bob       COMMERCE       B
3       Charlie       HUMANITIES       C
4       David       COMPUTER SCIENCE       D
5       Ellie       COMMERCE       C
==========================================
What would you like to do?

        [1] Insert new record
        [2] Display the table
        [3] Exit

Enter your choice[1/2/3]: 3
[ Exiting ]
```