19. ILLUSTRATION OF CONNECTIVITY PROGRAMMING-III

Integrate SQL with python by importing the MYSQL module and to implement the DML commands(UPDATE and SELECT). Populate the STUDENT(Roll, Name, Stream, Section)table with 4 records of your choice and do the following tasks:

- Accept the roll no: of the student to be Updated.
- Update the Record
- Display all the records (After Updation)

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] Update a 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 to update: ")
            name = input("Enter new name of student: ")
            stream = input("Enter new stream of student: ")
            section = input("Enter new section of student: ")

            cur.execute("update student set name='{}', stream='{}', section='
```

```python
                conn.commit()
                print("Record has been updated")

            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] Update a 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] Update a record
        [2] Display the table
        [3] Exit
```

```
Enter your choice[1/2/3]: 1
Enter roll no of student to update: 4
Enter new name of student: David
Enter new stream of student: COMMERCE
Enter new section of student: D
Record has been updated
===========================================
What would you like to do?

        [1] Update a 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       COMMERCE        D
===========================================
What would you like to do?

        [1] Update a record
        [2] Display the table
        [3] Exit

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