**MDS Assignment -07**

**Server:**

from http import server

from re import X

import socket

from \_thread import \*

import mysql.connector

host = '127.0.0.1'

port = 1233

ThreadCount = 0

conn=mysql.connector.connect(host='localhost',username='root',password='Aishwarya@123',database='college')

my\_curr=conn.cursor()

try:

    my\_curr.execute("select \* from student")

    result=my\_curr.fetchall()

    m=len(result)//2

    j=0

except:

    conn.rollback()

def client\_handler(connection):

    connection.send(str.encode('You are now connected to the replay server... Type BYE to stop'))

    str1=''

    global j

    global m

    if(j==0):

        for i in range(len(result)):

            if(result[i][3]<=2):

                str1=""

                for k in result[i]:

                    str1+=str(k)+" "

                str1+='\n'

                connection.send(str.encode(str1))

    else:

        for i in range(len(result)):

            if(result[i][3]>2):

                str1=""

                for k in result[i]:

                    str1+=str(k)+" "

                str1+="\n"

                connection.send(str.encode(str1))

    j+=1

    while True:

        data = connection.recv(2048)

        message = data.decode('utf-8')

        if message == 'BYE':

            break

        reply = f'Server: {message}'

        connection.send(str.encode(str1))

    connection.close()

def accept\_connections(ServerSocket):

    Client, address = ServerSocket.accept()

    print('Connected to: ' + address[0] + ':' + str(address[1]))

    start\_new\_thread(client\_handler, (Client,))

def start\_server(host, port):

    ServerSocket = socket.socket()

    try:

        ServerSocket.bind((host, port))

    except socket.error as e:

        print(str(e))

    print(f'Server is listing on the port {port}...')

    ServerSocket.listen()

    while True:

        accept\_connections(ServerSocket)

start\_server(host, port)

**client:**

import socket

host = '127.0.0.1'

port = 1233

ClientSocket = socket.socket()

print('Waiting for connection')

try:

    ClientSocket.connect((host, port))

except socket.error as e:

    print(str(e))

Response = ClientSocket.recv(2048)

while True:

    Input = input('Your message: ')

    ClientSocket.send(str.encode(Input))

    Response = ClientSocket.recv(2048)

    print(Response.decode('utf-8'))

ClientSocket.close()

**Output:**

**Server:**

PS E:\Dynamix\MDS-5> python server3.py

Server is listing on the port 1233...

Connected to: 127.0.0.1:52834

Connected to: 127.0.0.1:52838

**Client1:-**

PS E:\Dynamix\MDS-5> python client3.py

Waiting for connection

Your message: hi

2 Solpaur 8490328328 5 1

3 Kolhapur 9990328328 4 3

4 Solapur 9583757284 3 2

5 Kashmir 7429579322 3 1

**Client2:**

PS E:\Dynamix\MDS-5> python slient3.py

C:\Program Files\Python310\python.exe: can't open file 'E:\\Dynamix\\MDS-5\\slient3.py': [Errno 2] No such file or directory

PS E:\Dynamix\MDS-5> python client3.py

Waiting for connection

Your message: hi

1 Solpaur 7839207832 2 2