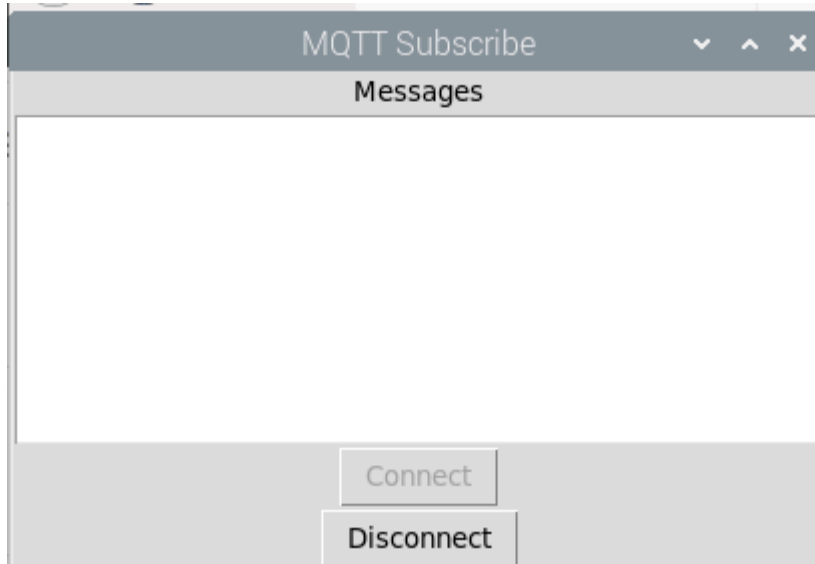


IoT
Assignment-3

Roll No: 19MCME01

1)



```
pi@raspberrypi:~/19mcme01/q1 $ python3 subscribe_mqtt_dht.py
rc:0
(0, 1)
rc:0
(0, 2)
rc:0
(0, 3)
rc:0
(0, 4)
rc:0
(0, 5)
```

```

^Cpi@raspberrypi:~/19mcme01/q1 $ python3 upload_to_thingspeak.py
Temp=34.0°C Humidity=38.0%
Temp=34.0°C Humidity=38.0%
Temp=34.0°C Humidity=38.0%
Temp=34.0°C Humidity=38.0%
Temp=34.0°C Humidity=38.0%
Temp=34.0°C Humidity=38.0%
Temp=34.0°C Humidity=38.0%
Temp=34.0°C Humidity=38.0%
Temp=34.0°C Humidity=38.0%
Temp=34.0°C Humidity=38.0%
Temp=34.0°C Humidity=38.0%
Temp=34.0°C Humidity=38.0%
Temp=34.0°C Humidity=38.0%
Temp=34.0°C Humidity=38.0%
Temp=34.0°C Humidity=38.0%
Temp=34.0°C Humidity=38.0%
Temp=34.0°C Humidity=38.0%
Temp=34.0°C Humidity=38.0%
Temp=34.0°C Humidity=38.0%
Temp=34.0°C Humidity=38.0%
^Cpi@raspberrypi:~/19mcme01/q1 $

```

2)

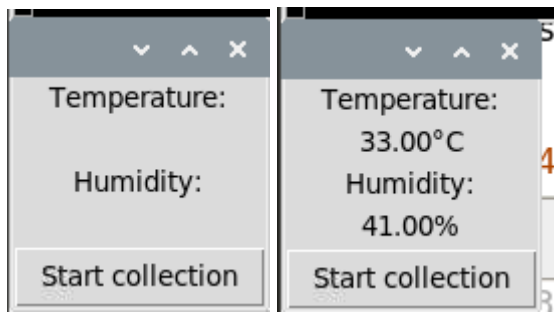
```

Failed to establish a new connection: [Errno 111] Connection refused'))

* Running on http://127.0.0.1:8080/ (Press CTRL+C to quit)
* Restarting with stat
/usr/lib/python3/dist-packages/pymysql/cursors.py:170: Warning: (1007, "Can't create database '19mcme01'
; database exists")
    result = self._query(query)
/usr/lib/python3/dist-packages/pymysql/cursors.py:170: Warning: (1050, "Table 'DHT_data' already exists
")
    result = self._query(query)
* Debugger is active!
* Debugger PIN: 290-537-590
127.0.0.1 - - [20/Apr/2024 19:51:41] "POST / HTTP/1.1" 201 -
127.0.0.1 - - [20/Apr/2024 19:51:45] "POST / HTTP/1.1" 201 -
127.0.0.1 - - [20/Apr/2024 19:51:45] "POST / HTTP/1.1" 201 -
127.0.0.1 - - [20/Apr/2024 19:51:46] "POST / HTTP/1.1" 201 -
127.0.0.1 - - [20/Apr/2024 19:51:46] "POST / HTTP/1.1" 201 -
127.0.0.1 - - [20/Apr/2024 19:51:47] "POST / HTTP/1.1" 201 -
127.0.0.1 - - [20/Apr/2024 19:51:47] "POST / HTTP/1.1" 201 -
127.0.0.1 - - [20/Apr/2024 19:51:48] "POST / HTTP/1.1" 201 -
127.0.0.1 - - [20/Apr/2024 19:51:48] "POST / HTTP/1.1" 201 -
pi@raspberrypi:~/19mcme01/q2 $

```

3)



```
pi@raspberrypi:~/19mcme01/q3 $ python3 gui_dht.py
/usr/lib/python3/dist-packages/pymysql/cursors.py:170: Warning: (1007, "Can't create database '19mcme01'; database exists")
  result = self._query(query)
/usr/lib/python3/dist-packages/pymysql/cursors.py:170: Warning: (1050, "Table 'DHT_data' already exists")
  result = self._query(query)
33.0 41.0
33.0 41.0
33.0 41.0
33.0 41.0
^CProgram terminated
pi@raspberrypi:~/19mcme01/q3 $
```

4)

```
pi@raspberrypi:~/19mcme01/q4 $ python3 crypto_dht.py
gAAAAABmI82dUYNLubnECoXouikxarx0fZclwTu-0gQQojw8pvAMTG9aWiE_5EJuAMBX0AwAbXFiJbXC
Omg_mbwPDRxnC5agP8Ao0koR7XRIk4kYiRzXk7J6ACecRvtVzAhRYU6RJwDg
pi@raspberrypi:~/19mcme01/q4 $
```