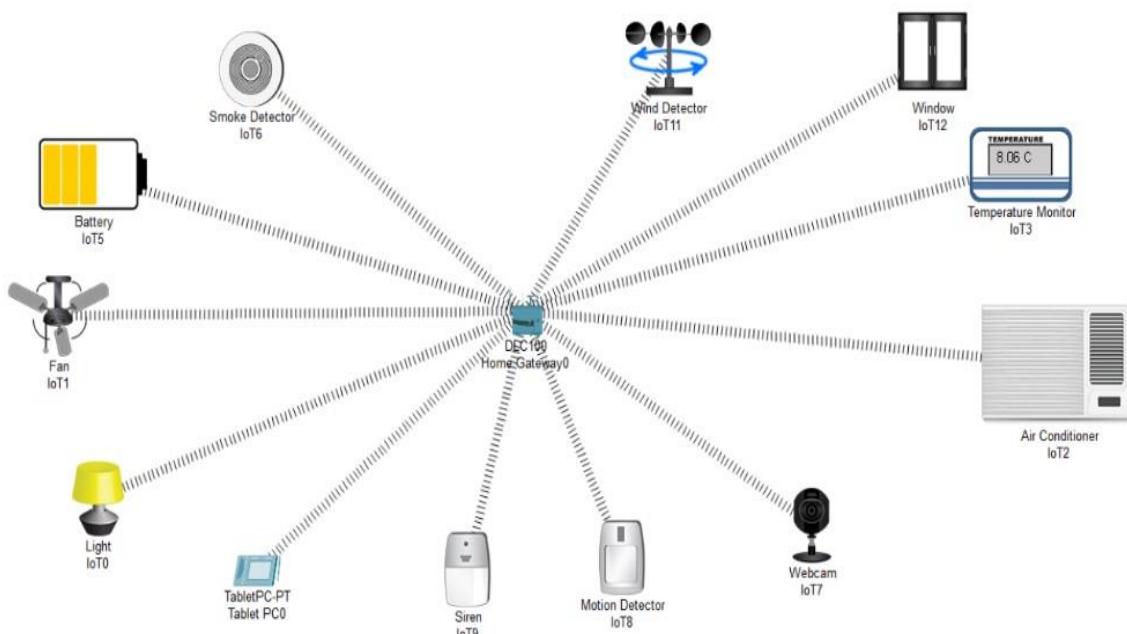


Practical - 9

Aim of the Practical:

Create an IoT environment where you need to connect your home gateway and connect a total of 10 IoT devices and create a total of 15 conditions where each condition should be affecting at least 5 IoT devices.



- Setup wireless connection on gateway and connect IoT devices with that network.

The image displays two software windows side-by-side, both titled with their respective device names.

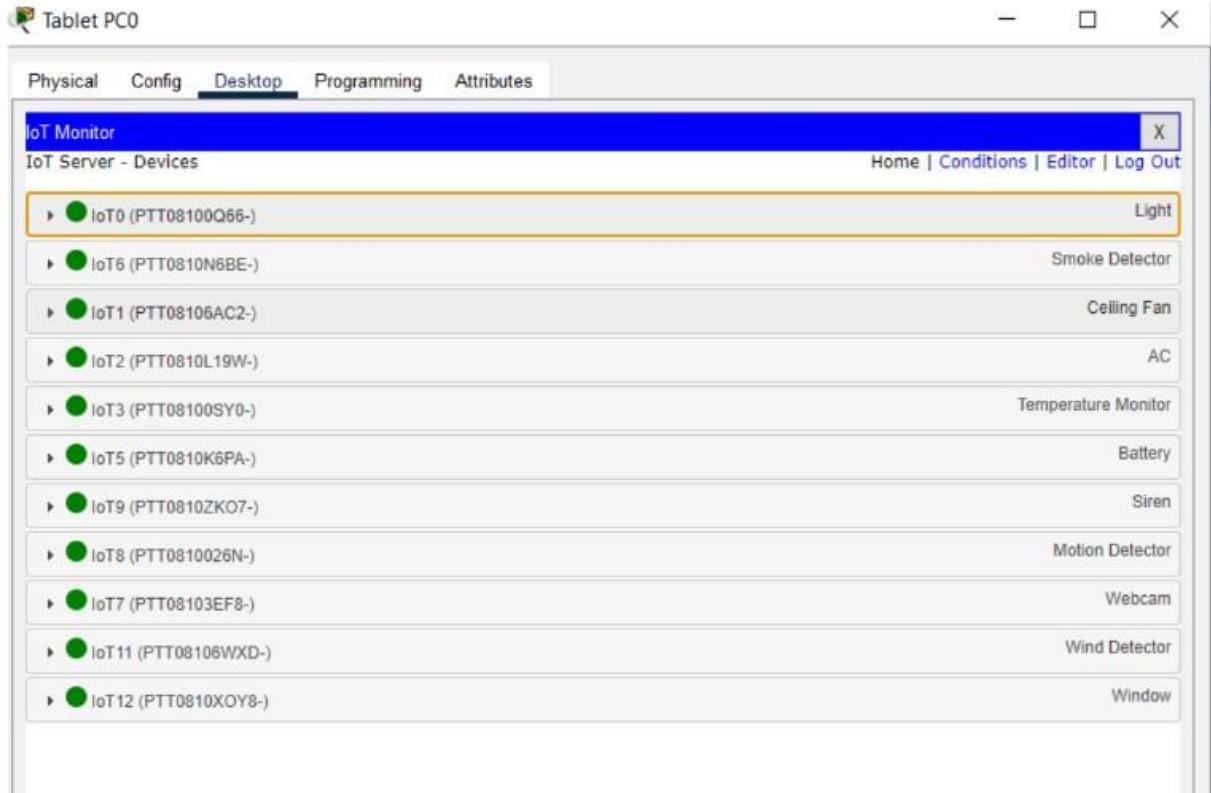
Home Gateway0 Configuration:

- Wireless Settings:**
 - SSID: Harshit
 - 2.4 GHz Channel: 6 - 2.437GHz
 - Coverage Range (meters): 250.00
 - Authentication:
 - Disabled
 - WEP
 - WPA-PSK
 - WPA
 - WPA2
 - WPA2-PSK
 - WEP Key: 1234567890
 - PSK Pass Phrase: (empty)
- RADIUS Server Settings:**
 - IP Address: (empty)
 - Shared Secret: (empty)
- Encryption Type:** 40/64-Bits (10 Hex digits)

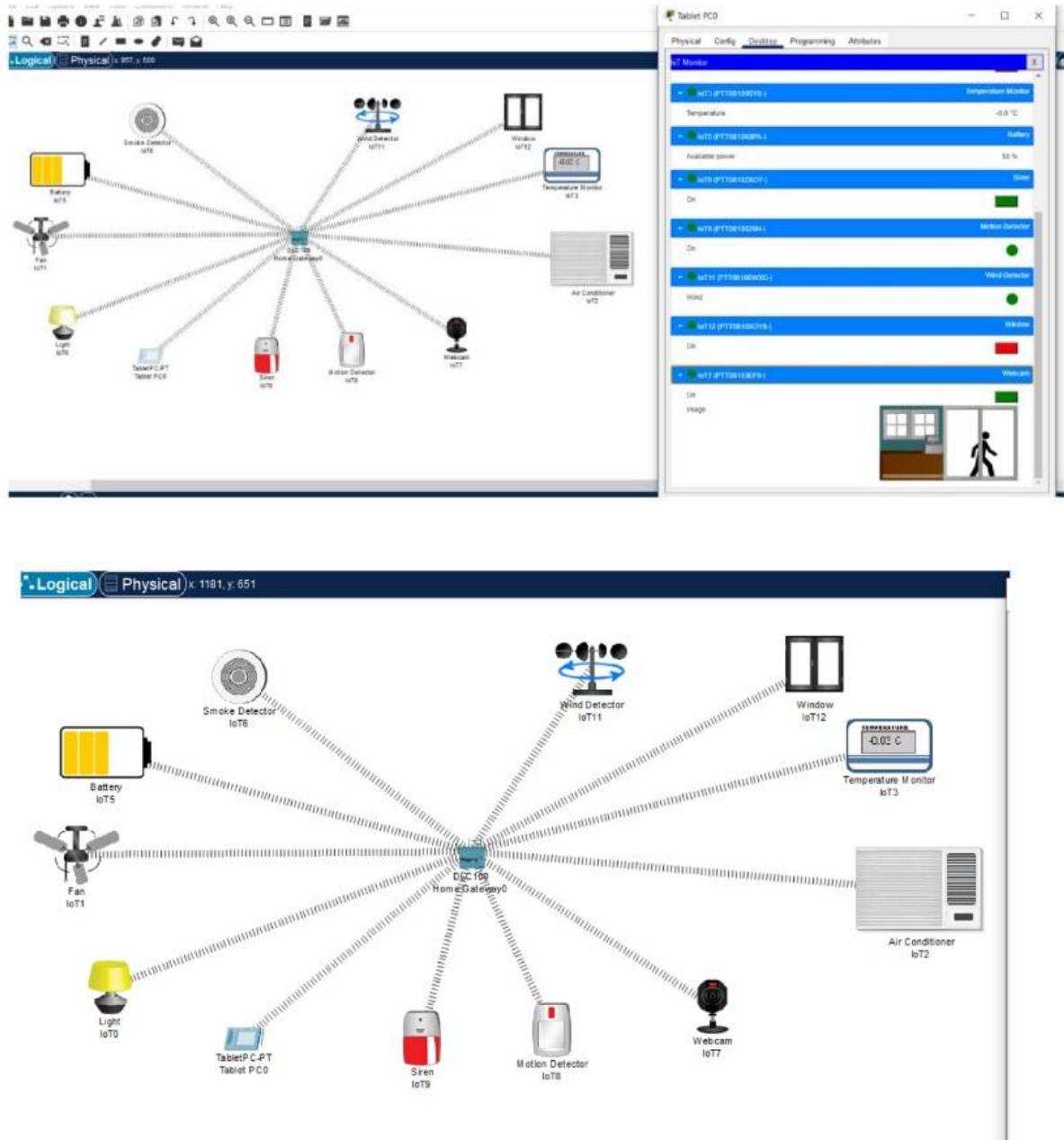
IoT Configuration:

- Global Settings:**
 - Display Name: IoT7
 - Serial Number: PTT0810P2K0-
 - Interfaces: Wireless0
 - Gateway/DNS IPv4:
 - DHCP
 - Static
 - Default Gateway: 192.168.25.1
 - DNS Server: (empty)
- Gateway/DNS IPv6:**
 - Automatic
 - Static
- Default Gateway:** (empty)
- DNS Server:** (empty)
- IoT Server:**
 - None
 - Home Gateway
 - Remote Server
- Server Address:** (empty)
- User Name:** (empty)
- Password:** (empty)

➤ List of IoT devices



➤ Effect of movements on IoT devices



Tablet PC0

Physical Config **Desktop** Programming Attributes

IoT Monitor

IoT Server - Device Conditions

X Home | Conditions | Editor | Log Out

Actions	Enabled	Name	Condition	Actions
Edit Remove	Yes	Enable_motion	IoT8 On is true	Set IoT9 On to true Set IoT7 On to true
Edit Remove	Yes	Disable_motion	IoT8 On is false	Set IoT9 On to false Set IoT7 On to false
Edit Remove	Yes	Temp_medium	IoT3 Temperature is between 25.0 °C and 30.0 °C	Set IoT2 On to true
Edit Remove	Yes	Temp_low	IoT3 Temperature < 25.0 °C	Set IoT1 Status to Low
Edit Remove	Yes	Temp_high	IoT3 Temperature > 30.0 °C	Set IoT2 On to true Set IoT1 Status to High
Edit Remove	Yes	Smoke_detect	IoT6 Level is between 151 and 200	Set IoT9 On to true Set IoT2 On to false Set IoT1 Status to Low
Edit Remove	Yes	Battery	IoT5 Available power < 50 %	Set IoT2 On to false Set IoT0 Status to Dlm Set IoT1 Status to Low
Edit Remove	Yes	Wind	IoT11 Wind is true	Set IoT2 On to false Set IoT1 Status to Low

Add

Top

