

SMART HOME AUTOMATION USING CISCO PACKET TRACER

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SENSE

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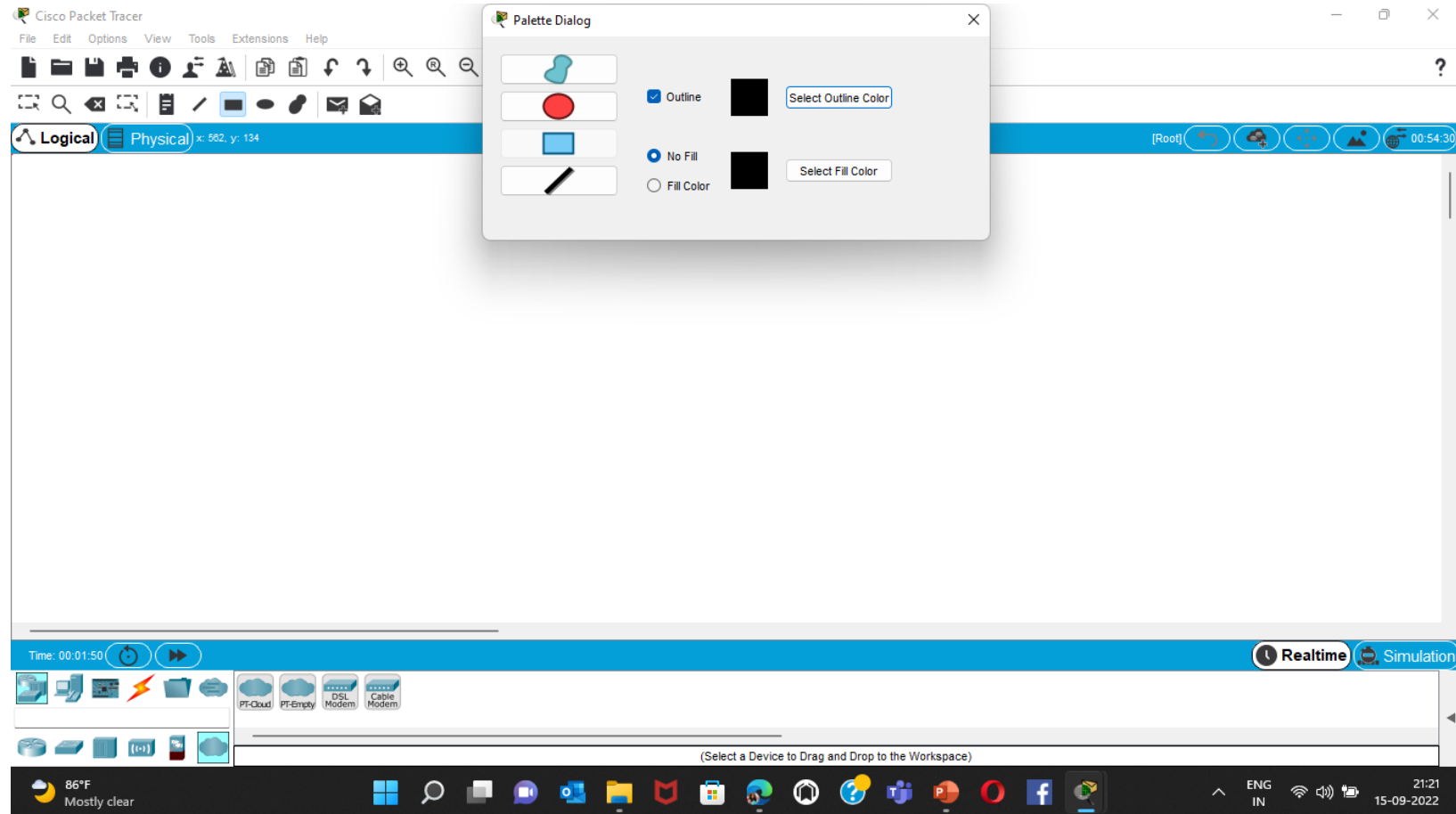
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84°F
Mostly clear

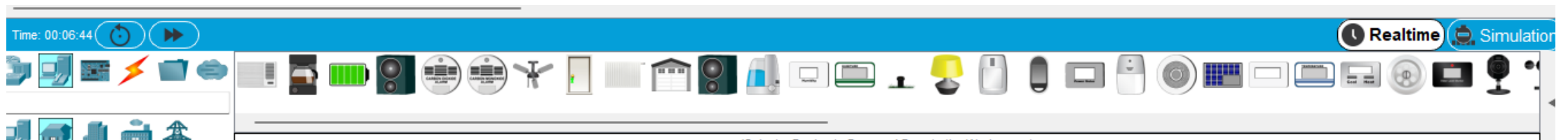
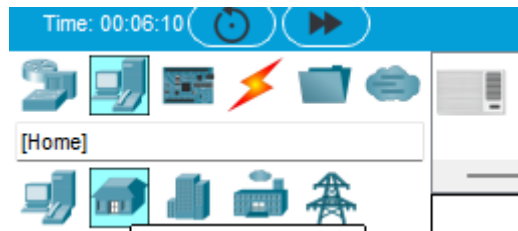
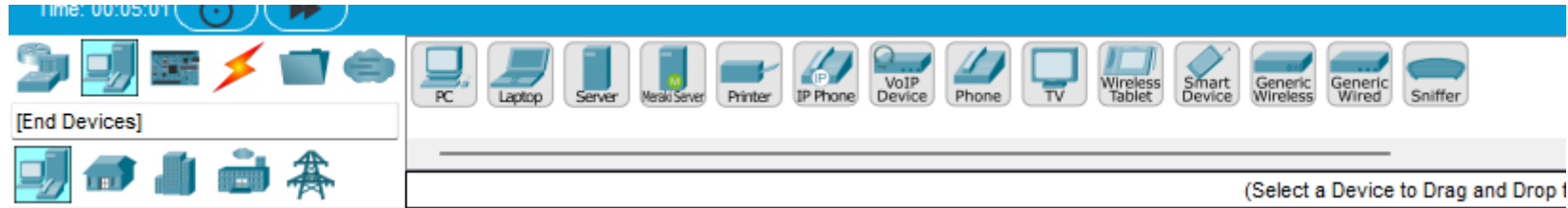


ENG
IN23:03
15-09-2022

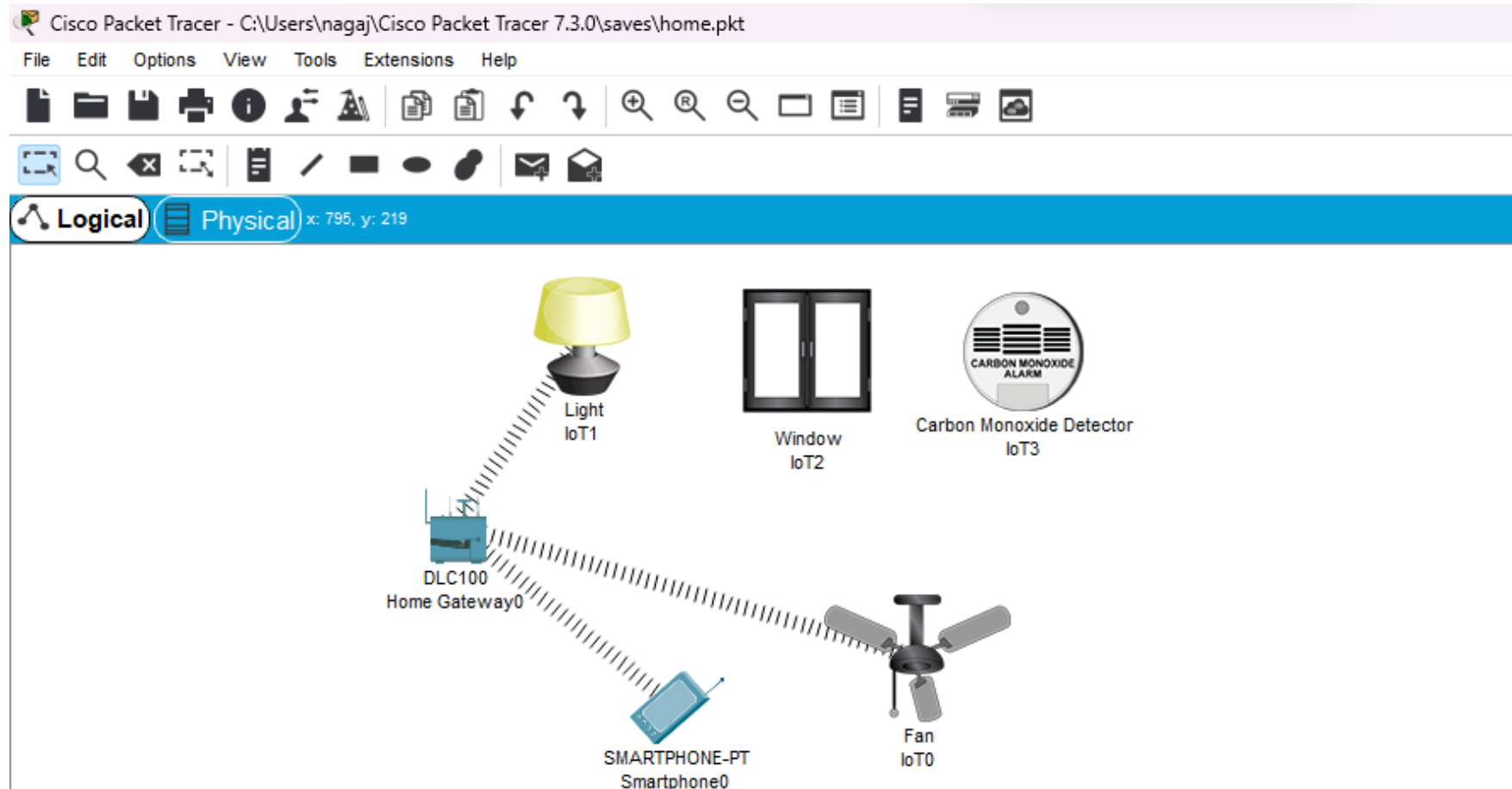
If required rooms can be made



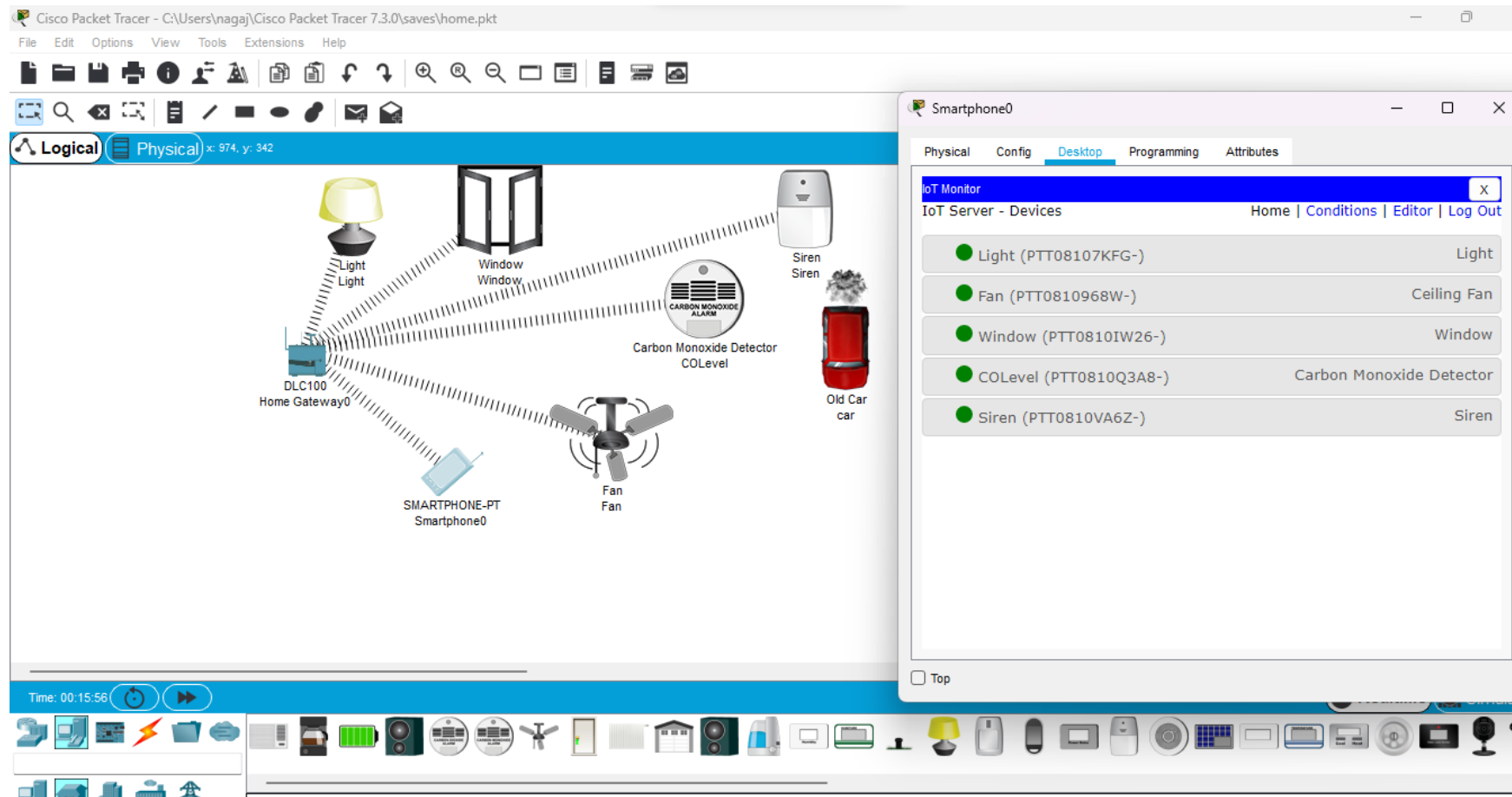
Click End Devices-Home-Add devices



Click and drag the components



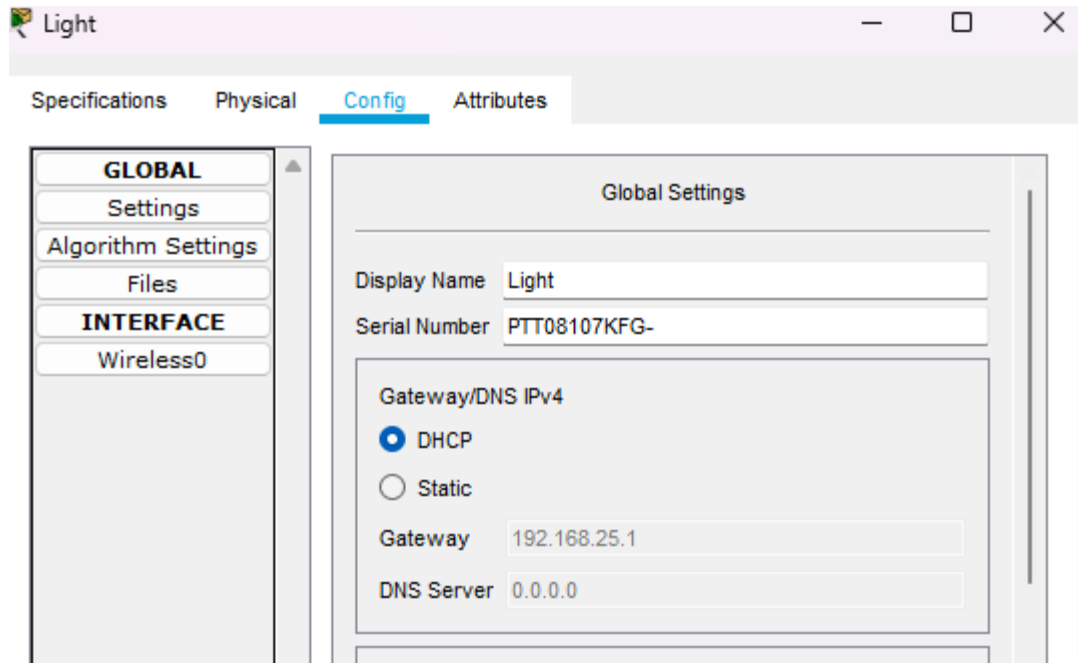
To activate car and check carbon monoxide_add
car from smart city_alt _move to test pollution



To connect each device to the Gateway

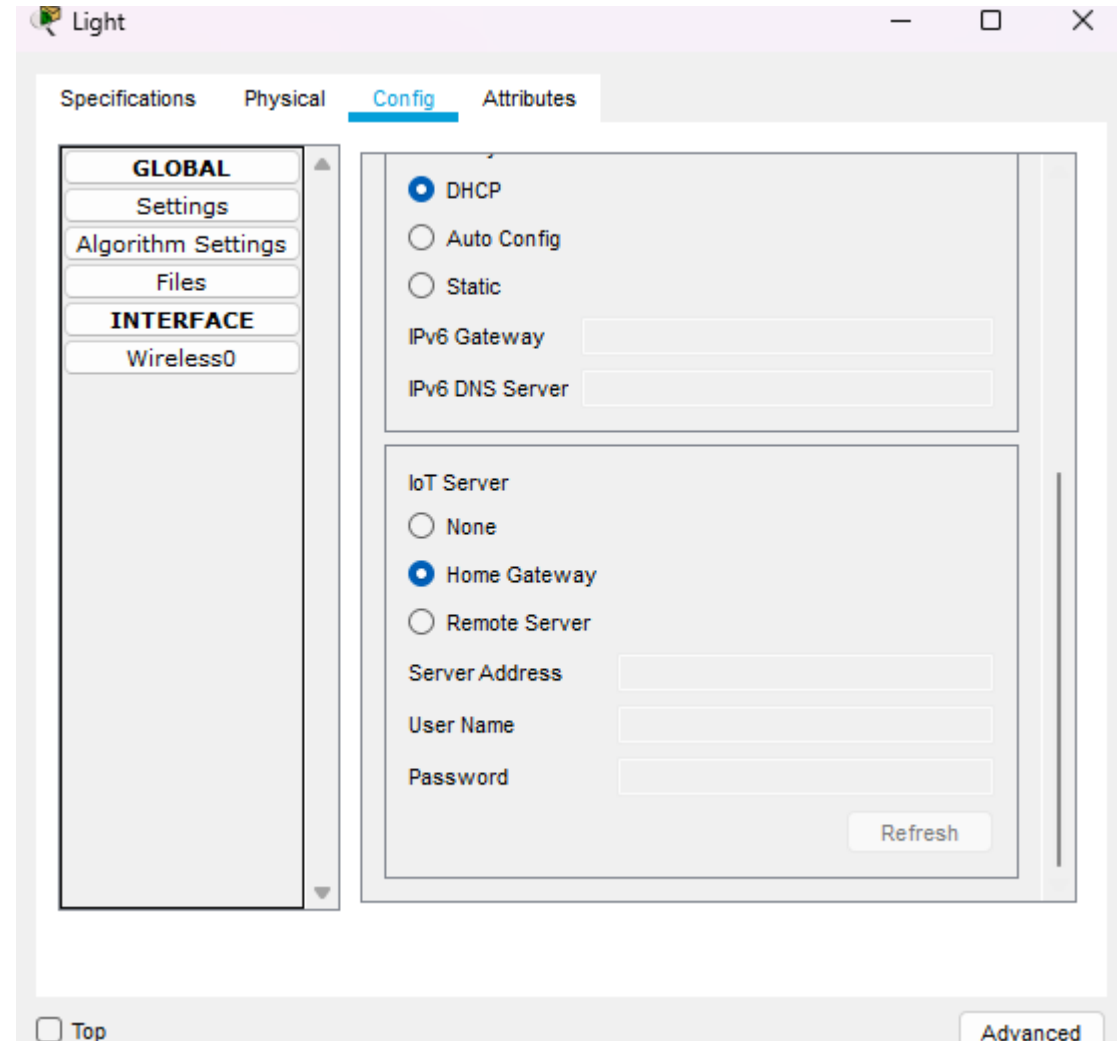
- Click the device-Advanced-I/O Config-Network Adapter select=1W for wireless-Config_Display Name-give name-IoTServer- Select Home Gateway

For light-Advanced-Config-display name-IoT Server



The screenshot shows the 'Light' configuration window with the 'Config' tab selected. The left sidebar contains a tree view with 'GLOBAL' expanded, showing 'Settings', 'Algorithm Settings', 'Files', and 'INTERFACE' (with 'Wireless0' sub-item). The main area is titled 'Global Settings' and contains the following fields:

- Display Name:
- Serial Number:
- Gateway/DNS IPv4:
 - ☒ DHCP
 - ☐ Static
 - Gateway:
 - DNS Server:

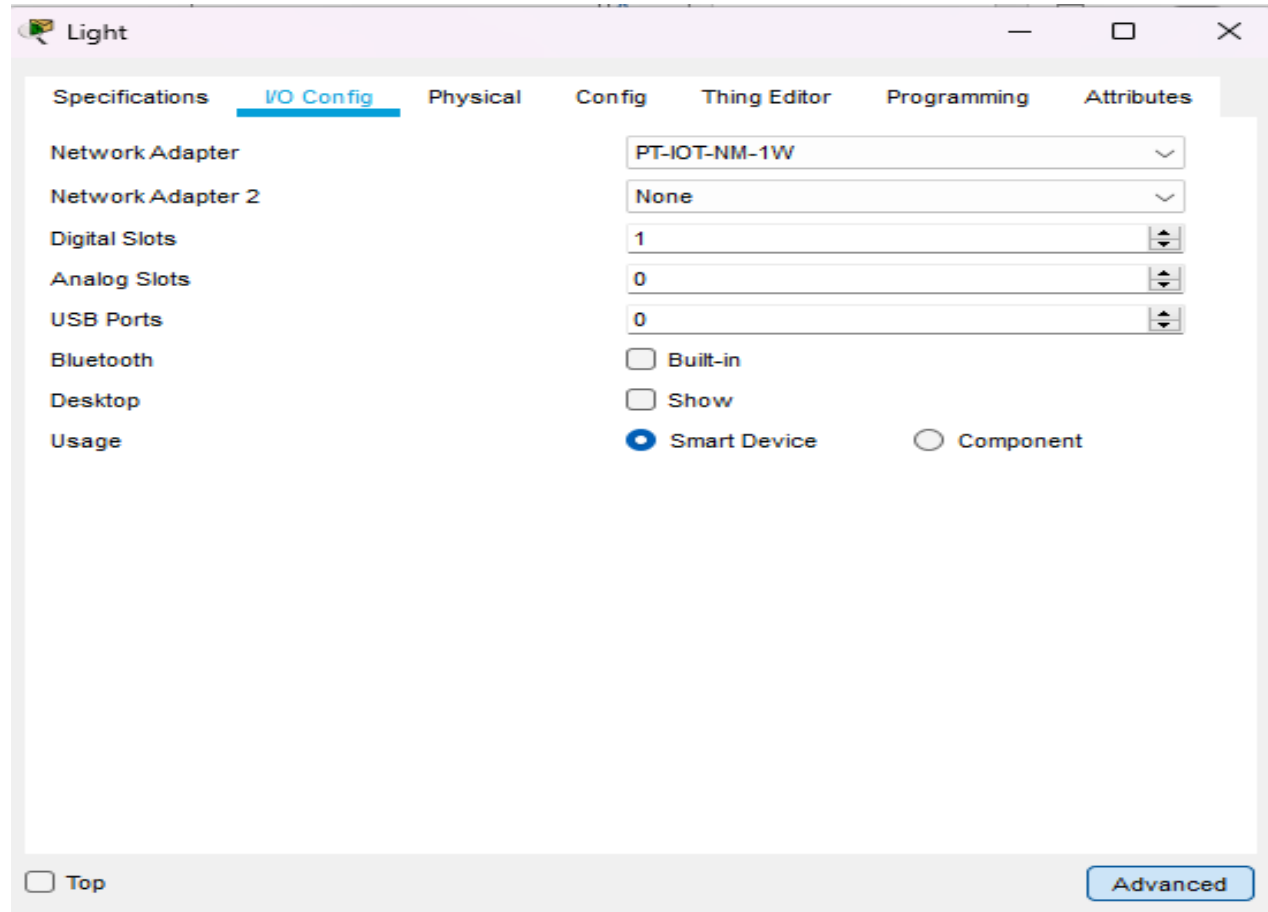


The screenshot shows the 'Light' configuration window with the 'Config' tab selected. The left sidebar is identical to the previous screenshot. The main area shows the 'INTERFACE' section with 'Wireless0' selected. The settings for 'Wireless0' are:

- IPv4: ☒ DHCP, ☐ Auto Config, ☐ Static
- IPv6 Gateway:
- IPv6 DNS Server:
- IoT Server:
 - ☐ None
 - ☒ Home Gateway
 - ☐ Remote Server
 - Server Address:
 - User Name:
 - Password:
 -

At the bottom of the window, there is a 'Top' button on the left and an 'Advanced' button on the right.

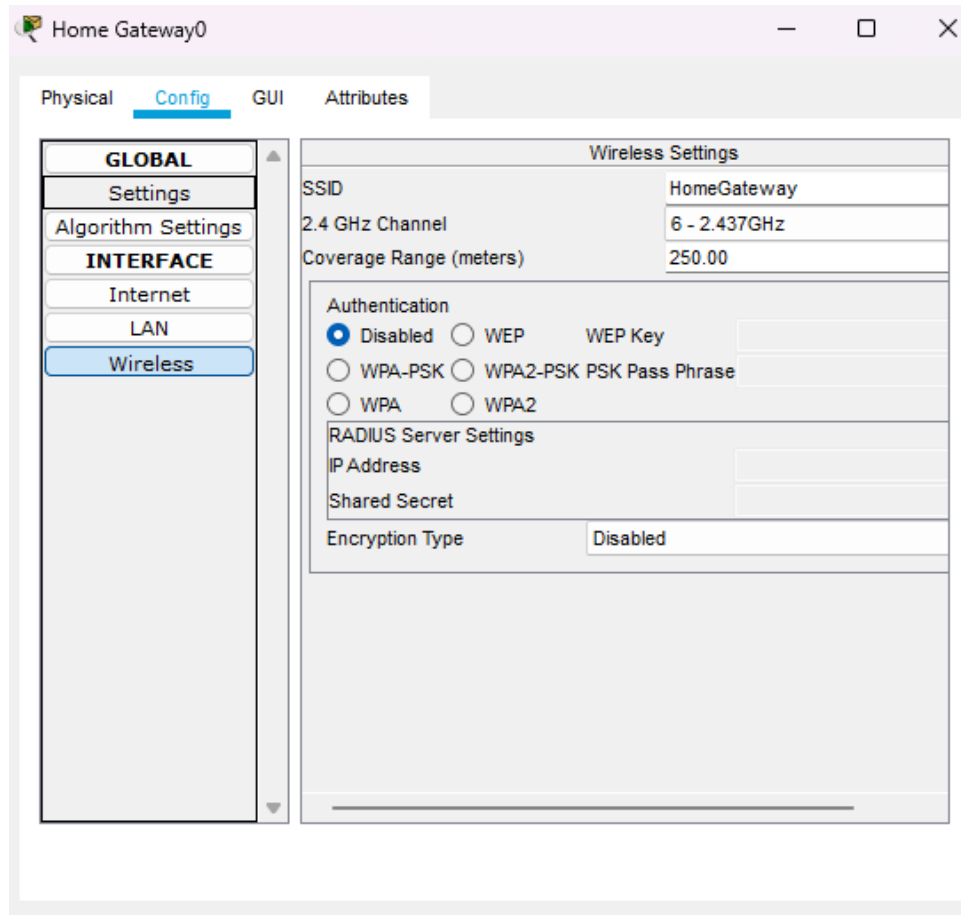
Select –Advanced -I/O Config -1W



The screenshot shows a software window titled "Light" with a tabbed interface. The "I/O Config" tab is selected, showing configuration options for various hardware components. The "Network Adapter" is set to "PT-IOT-NM-1W", "Network Adapter 2" is set to "None", "Digital Slots" is set to "1", "Analog Slots" is set to "0", and "USB Ports" is set to "0". Under the "Usage" section, the "Smart Device" radio button is selected, and the "Built-in" checkbox is unchecked. A "Top" button is located at the bottom left, and an "Advanced" button is at the bottom right.

Configuration Item	Value
Network Adapter	PT-IOT-NM-1W
Network Adapter 2	None
Digital Slots	1
Analog Slots	0
USB Ports	0
Bluetooth	<input type="checkbox"/> Built-in
Desktop	<input type="checkbox"/> Show
Usage	<input checked="" type="radio"/> Smart Device <input type="radio"/> Component

Copy SSID of Home Gateway from Wireless



The screenshot shows a configuration window titled "Home Gateway0" with a sidebar on the left and a main content area on the right. The sidebar has tabs for "Physical", "Config", "GUI", and "Attributes". Under "Config", there are sub-tabs for "GLOBAL", "INTERFACE", and "Wireless". The "Wireless" sub-tab is selected. The main content area displays the "Wireless Settings" configuration. The SSID is set to "HomeGateway". The 2.4 GHz Channel is set to "6 - 2.437GHz". The Coverage Range (meters) is set to "250.00". The Authentication section has "Disabled" selected. The RADIUS Server Settings section has "IP Address" and "Shared Secret" fields. The Encryption Type is set to "Disabled".

Wireless Settings	
SSID	HomeGateway
2.4 GHz Channel	6 - 2.437GHz
Coverage Range (meters)	250.00
Authentication	
<input checked="" type="radio"/> Disabled	<input type="radio"/> WEP WEP Key
<input type="radio"/> WPA-PSK	<input type="radio"/> WPA2-PSK PSK Pass Phrase
<input type="radio"/> WPA	<input type="radio"/> WPA2
RADIUS Server Settings	
IP Address	
Shared Secret	
Encryption Type	Disabled

Smartphone-Wireless-SSID-paste-HomeGateway

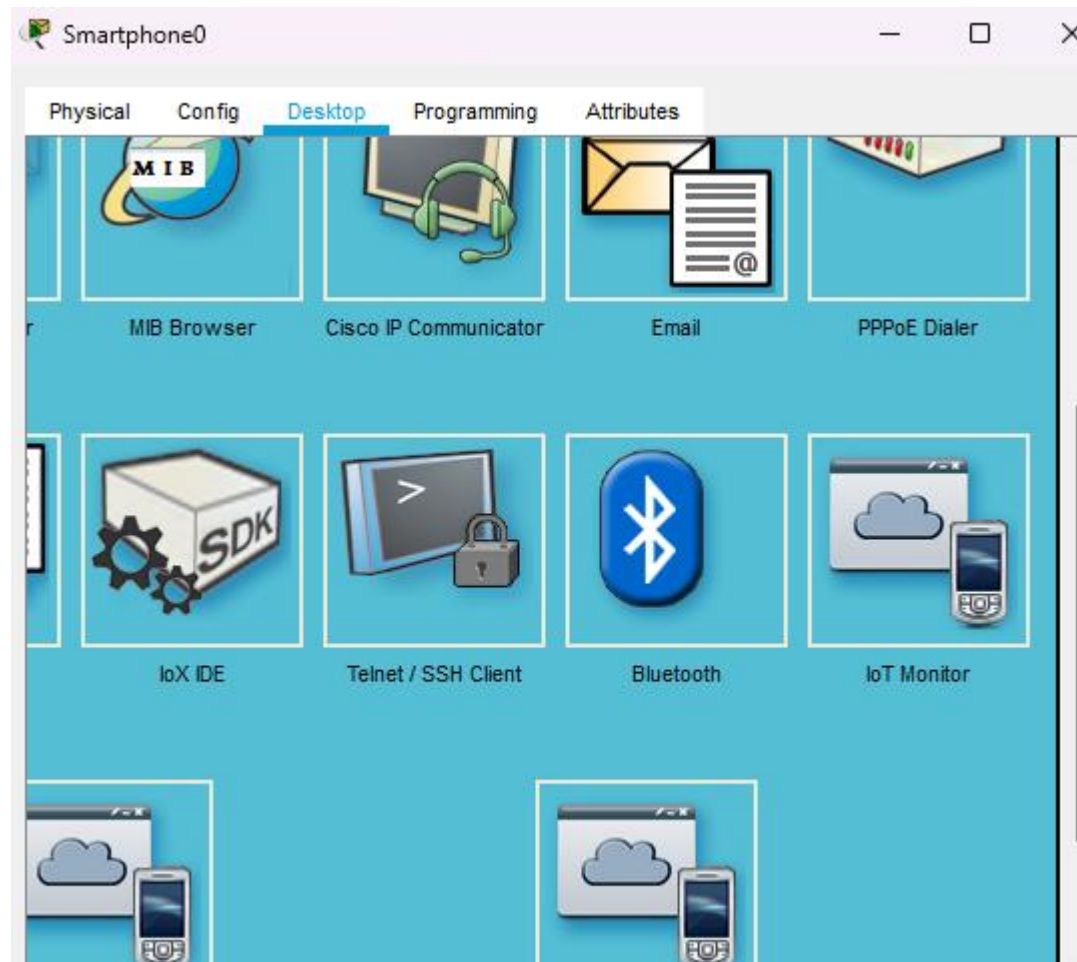
The screenshot shows a configuration window titled "Smartphone0" with tabs for Physical, Config, Desktop, Programming, and Attributes. The "Config" tab is active. On the left, a sidebar lists "GLOBAL" (Settings, Algorithm Settings) and "INTERFACE" (Wireless0, 3G/4G Cell1, Bluetooth). The "Wireless0" interface is selected. The main area displays settings for "Wireless0":

- Port Status**
- Bandwidth**: 300 Mbps
- MAC Address**: 0007.ECE5.77A8
- SSID**: HomeGateway
- Authentication**:
 - ☒ Disabled
 - ☐ WEP (WEP Key:)
 - ☐ WPA-PSK (PSK Pass Phrase:)
 - ☐ WPA2-PSK (User ID: , Password:)
 - ☐ WPA (User ID: , Password:)
 - ☐ 802.1X (Method: MD5, User Name: , Password:)
- Encryption Type**: Disabled
- IP Configuration**:
 - ☒ DHCP
 - ☐ Static
- IP Address**: 192.168.25.104

At the bottom left, there is a "Top" button with a checkbox.

Smartphone-Desktop-IoT Monitor

- From smartphone the devices are connected through gateway.



Smartphone0

Physical Config **Desktop** Programming Attributes

IoT Monitor

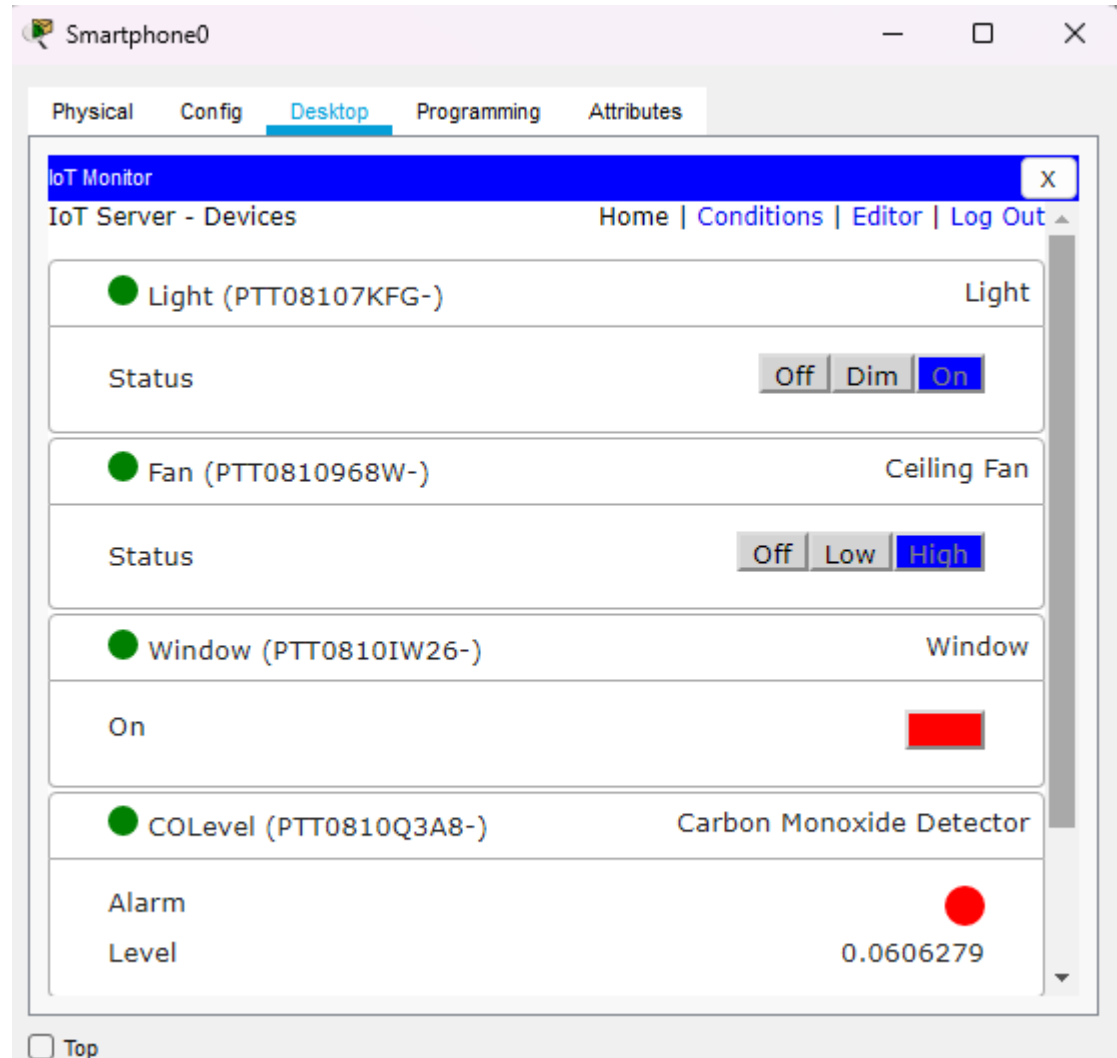
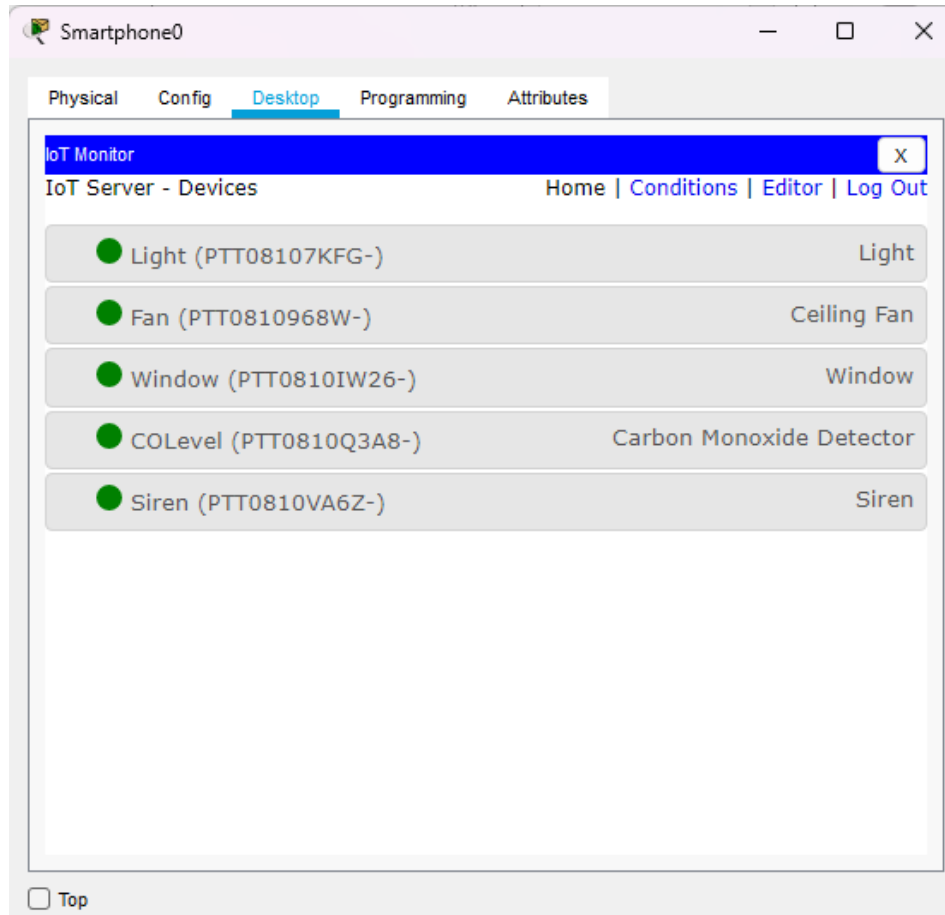
IoT Server Address: 192.168.25.1

User Name: admin

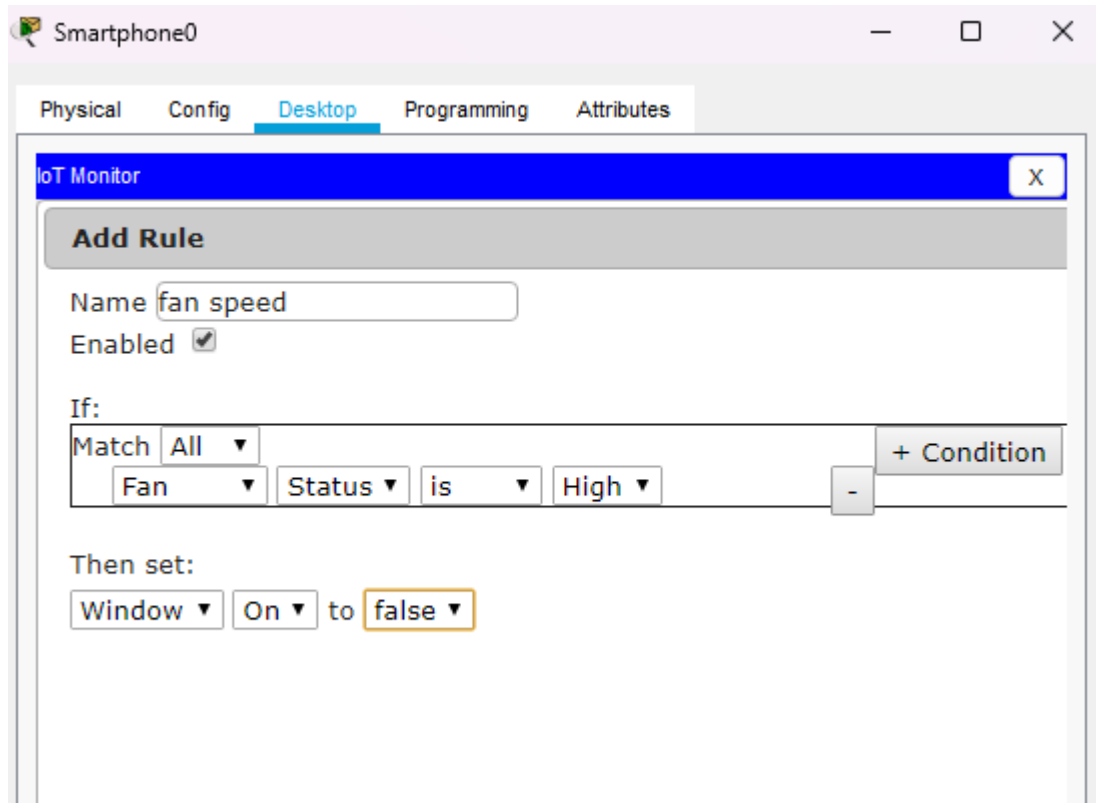
Password: admin

Login

Connected devices will appear. On expanding the conditions can be viewed.



Conditions could be set for customization



The screenshot shows a software window titled "Smartphone0" with a tabbed interface. The "Desktop" tab is active, displaying the "IoT Monitor" section. Within this section, there is an "Add Rule" form. The form includes a "Name" field with the text "fan speed", an "Enabled" checkbox that is checked, and an "If:" condition section. The "If:" section has a "Match" dropdown set to "All" and a sequence of dropdowns: "Fan", "Status", "is", and "High". A "+ Condition" button is to the right of these dropdowns. Below the "If:" section is a "Then set:" section with dropdowns for "Window", "On", and "false".

Smartphone0

Physical Config Desktop Programming Attributes

IoT Monitor

Add Rule

Name

Enabled ☒

If:

Match

Then set:

to

Smartphone0

PhysicalConfigDesktopProgrammingAttributes

IoT Monitor

IoT Server - Device Conditions

Home | Conditions | Editor | Log Out

Actions		Enabled	Name	Condition	Actions
Edit	Remove	Yes	COLEVEL	COLevel Level > 0.03	Set Siren On to true
Edit	Remove	Yes	fan speed	Fan Status is High	Set Window On to false

Add

Smartphone0

PhysicalConfigDesktopProgrammingAttributes

IoT Monitor

IoT Server - DevicesHome | Conditions | Editor | Log Out

Light (PTT08107KFG-)

Light

Fan (PTT0810968W-)

Ceiling Fan

Status

OffLowHigh

Window (PTT0810IW26-)

Window

On

COLevel (PTT0810Q3A8-)

Carbon Monoxide Detector

Siren (PTT0810VA6Z-)

Siren

Cisco Packet Tracer - C:\Users\naga\Cisco Packet Tracer 7.3.0\saves\home.pkt

File Edit Options View Tools Extensions Help

Logical Physical x: 987, y: 306

Light
Window
Carbon Monoxide Detector COLevel
Siren
Old Car car
DLC100 Home Gateway0
SMARTPHONE-PT Smartphone0
Fan Fan

Time: 00:48:36 Realtime Simulation

Sound Frequency Detector

26°C Haze 20:22 28-01-2024

Smartphone0

Physical Config Desktop Programming Attributes

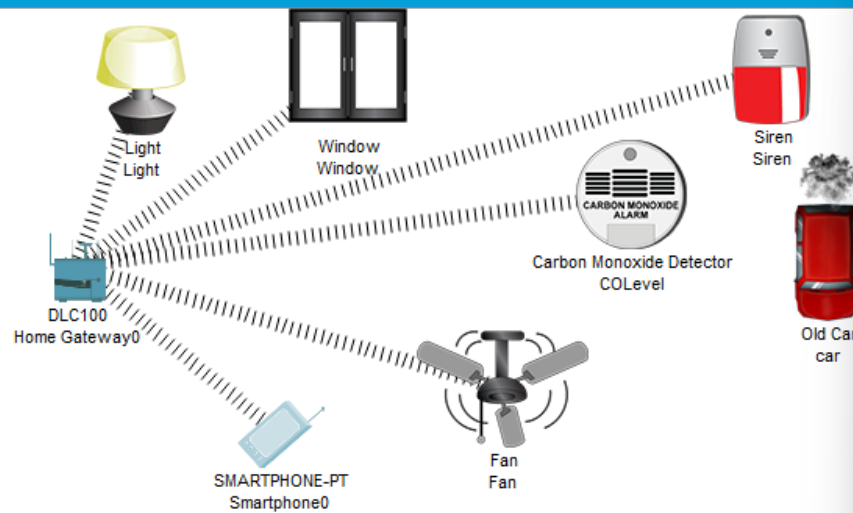
IoT Monitor
IoT Server - Devices Home | Conditions | Editor | Log Out

- Light (PTT08107KFG-) Light
Status Off Dim On
- Fan (PTT0810968W-) Ceiling Fan
- Window (PTT0810IW26-) Window
- COLevel (PTT0810Q3A8-) Carbon Monoxide Detector
- Siren (PTT0810VA6Z-) Siren

Top



Logical Physical x: 759, y: 344



Smartphone0

Physical Config Desktop Programming Attributes

IoT Monitor X

Light (PTT08107KFG-) Light

Fan (PTT0810968W-) Ceiling Fan

Status Off Low High

Window (PTT0810IW26-) Window

On

COLevel (PTT0810Q3A8-) Carbon Monoxide Detector

Alarm Level 0.0606232

Siren (PTT0810VA6Z-) Siren

On

Top