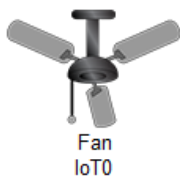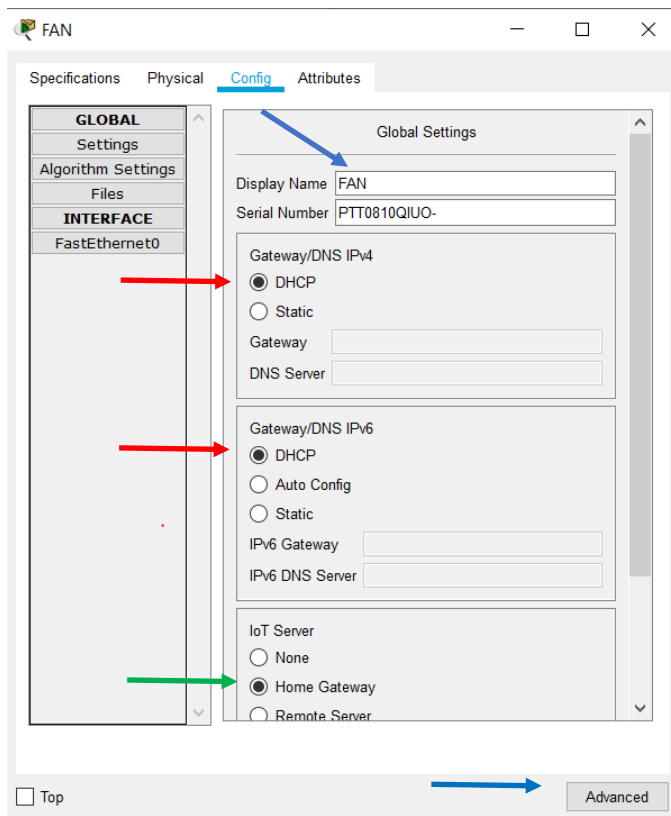**Practical 9**

Aim: Simulate Mobile Adhoc Network with Directional Antenna

Basic Setup:
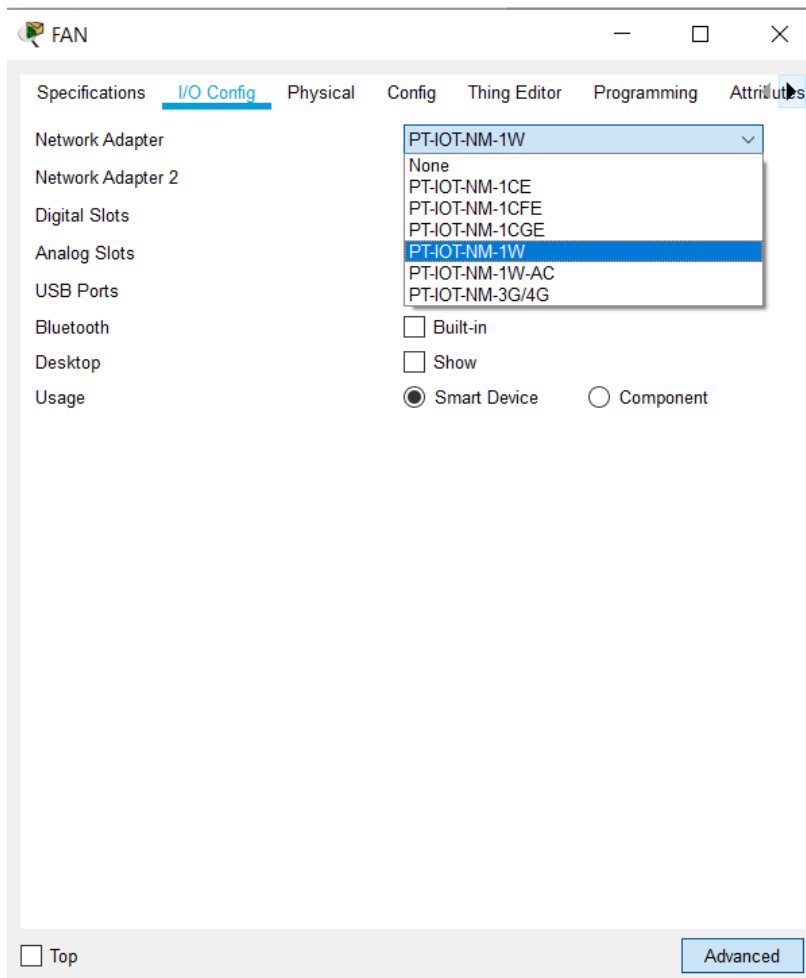

1. Click on Fan ⟶ Config then,

Change Display name (blue arrow)

Select DHCP for IPv4 & IPv6 (red arrow)

Select Home Gateway (green arrow)

2. Then click on Advanced ⟶ I/O Config

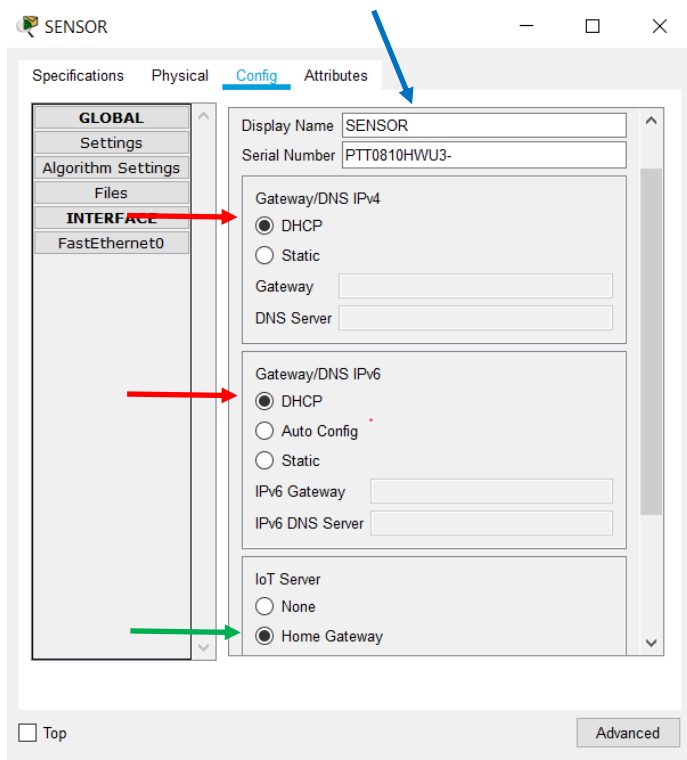Select the PT-IOT-NM-1W option from the dropdown

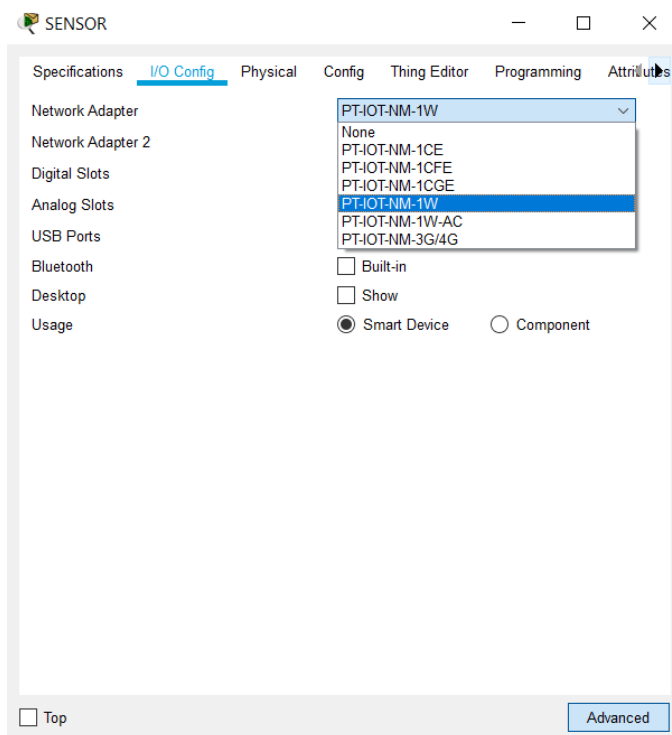Similarly for motion sensor:

3. Click on Sensor ⟶ Config then,

Change Display name (blue arrow)

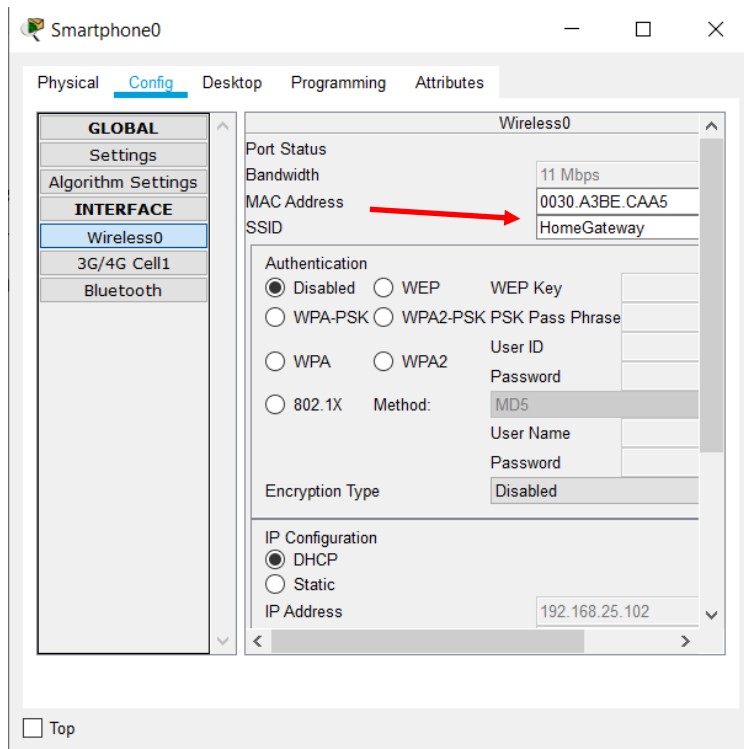Select DHCP for IPv4 & IPv6 (red arrow)

Select Home Gateway (green arrow)

4.Then click on Advanced ⟶ I/O Config

Select the PT-IOT-NM-1W option from the dropdown
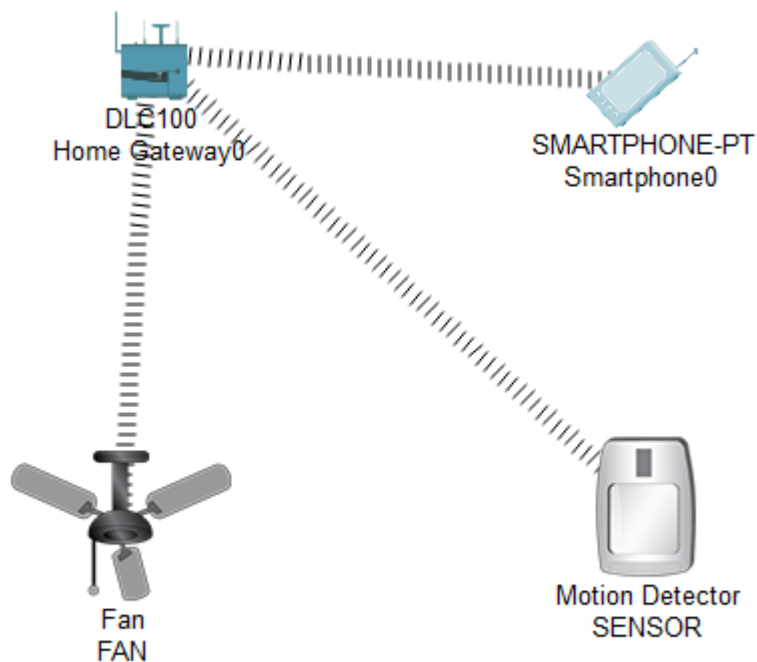
5. For the smartphone change the SSID to the SSID in the Home Gateway0

Click on smartphone ───────► Config ───────► Wireless0

Write HomeGateway instead of Default in SSID

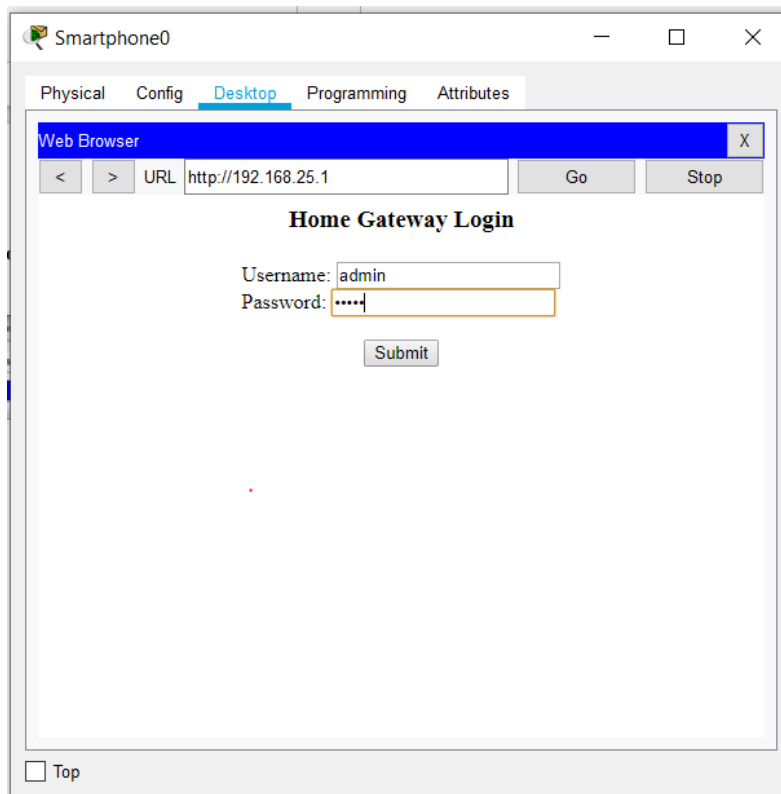All the devices are now connected to the Home Gateway

6. Now open the Web browser of the SmartPhone and type the IP address of the HomeGateway

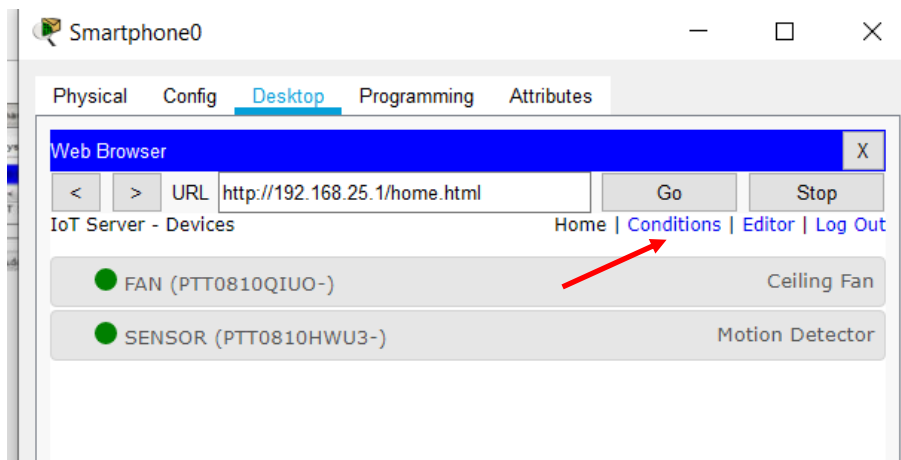Click on Smartphone ——————▶ Desktop ——————▶ Web browser

Enter the Url as **192.168.25.1** then click on Go

Then enter **username : admin** & **password : admin**

Then click submit

7.After logging click on conditions

Then click on Add & add conditions :

First condition

Edit Rule

Name Fan-ON
Enabled ☑

If:
Match [All ▼]   [+ Condition] [+ Group]
    [SENSOR ▼] [On ▼] is [true ▼]   [-]

Then set: [+ Action]
[FAN ▼] [Status ▼] to [High ▼]   [-]

[OK] [Cancel]

Second condition

Edit Rule

Name Fan-OFF
Enabled ☑

If:
Match [All ▼]   [+ Condition] [+ Group]
    [SENSOR ▼] [On ▼] is [false ▼]   [-]

Then set: [+ Action]
[FAN ▼] [Status ▼] to [Off ▼]   [-]

[OK] [Cancel]

Now bring the arrow on the sensor , then press alt & left-click

DLC100
Home Gateway0

SMARTPHONE-PT
Smartphone0

Fan
FAN

Motion Detector
SENSOR