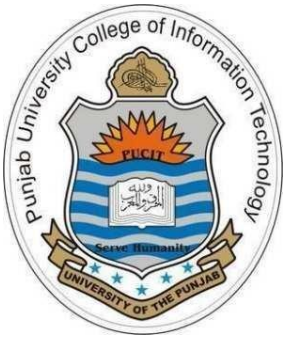
PUNJAB UNIVERSITY COLLEGE OF INFORMATION TECHNOLOGY(PUCIT)

Computer Networks Lab 07



BS-IT MORNING Fall-17 (New Campus)

Date: 08-05-2020

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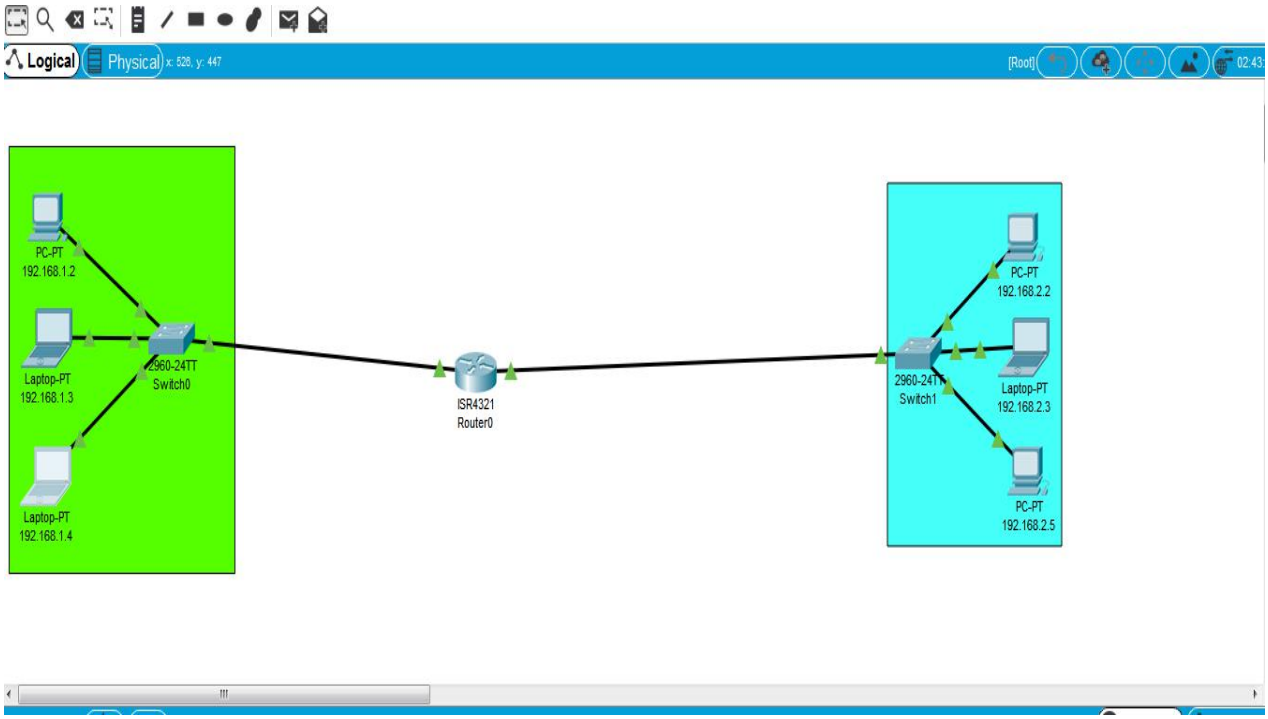
Roll number: BITF17M556

Perform the following practicals, take screenshots of all the steps and paste them in word document with a line or two explaining every step.

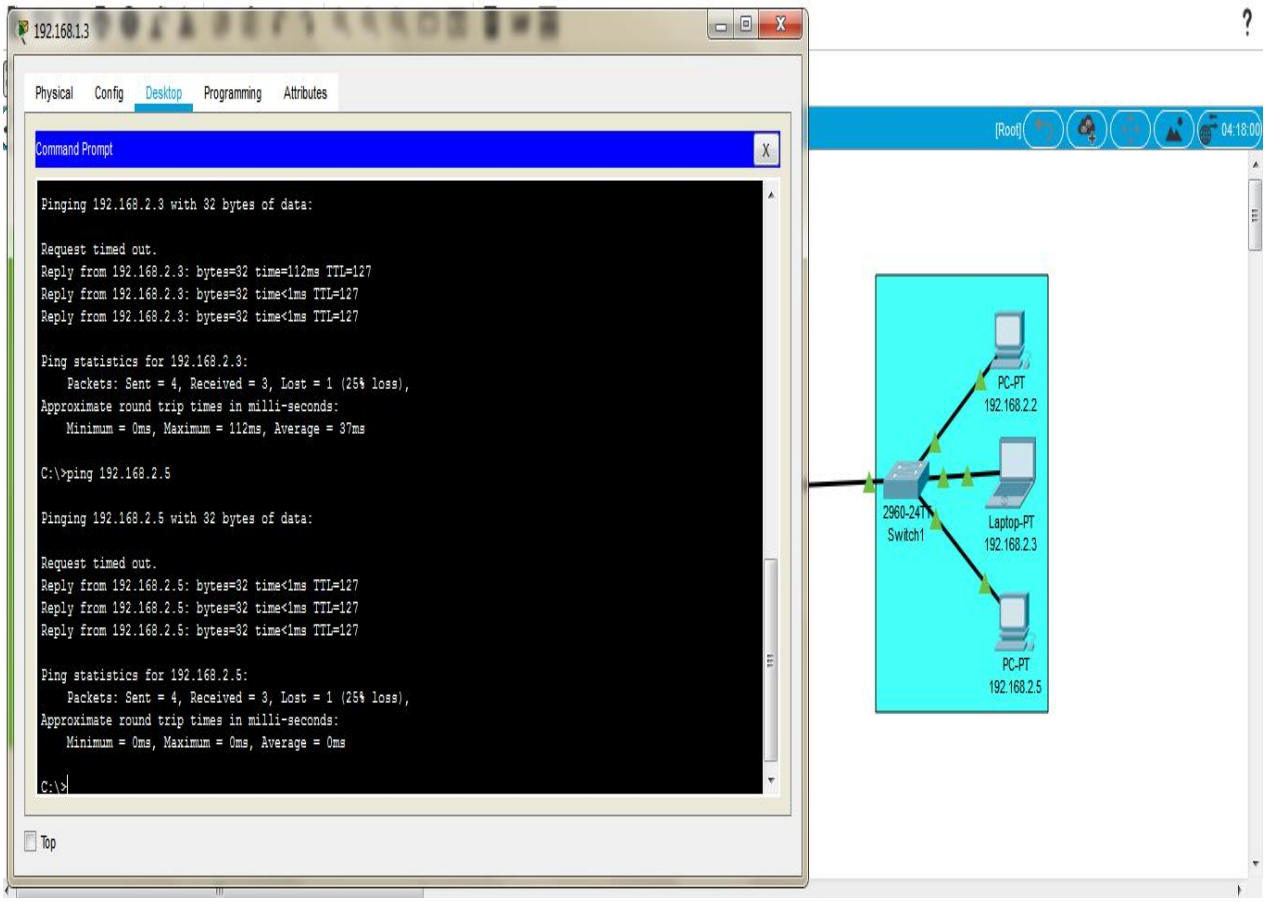
1. **Packet Tracer:**

Show how will you communicate(transfer data) between two different networks using a Router?

Network architecture.:



Screen Shot of data transfer simulation (working of network).



2. IoT:

Show how will you control a fan and a lamp using mobile in IoT system?

Note: Take screenshots of all the steps and paste them in word document with a line or two explaing every step.

Step : 1

Select Fan and Lamp from end Devices of Home.

END DEVICES AND HOME DEVICES

FAN

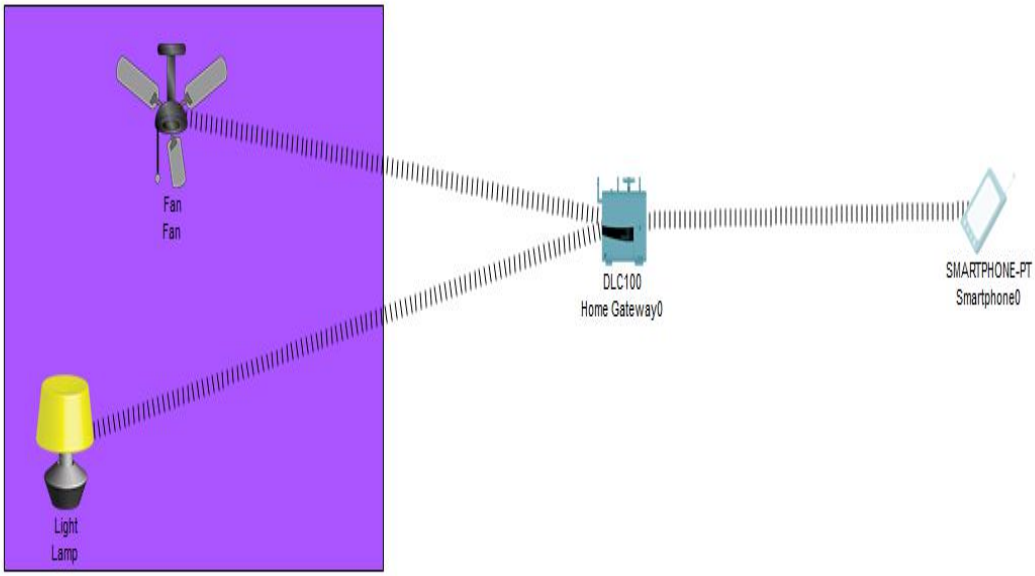
LAMP

Step : 2

Drag these devices and so first we make a Architecture of our working :

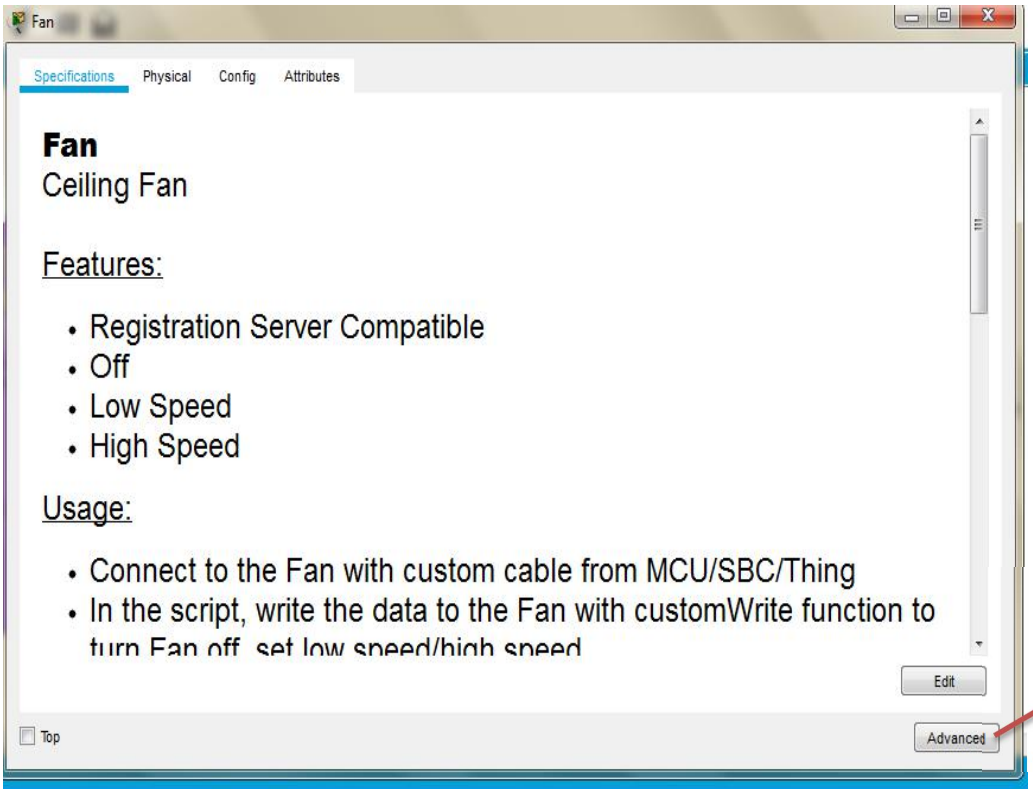
- **SELECT NETWORK DEVICES :**
  - **SELECT WIRELESS**
  - **NOW THE TIME IS FOR HOME GATEWAY.**
- **SELECT END DEVICES :**
  - **SELECT SMART PHONE**

NOW THE ALL THINGS YOU FRAG INTO THE SCREEN AND THE FINAL SCREEN IS HERE .

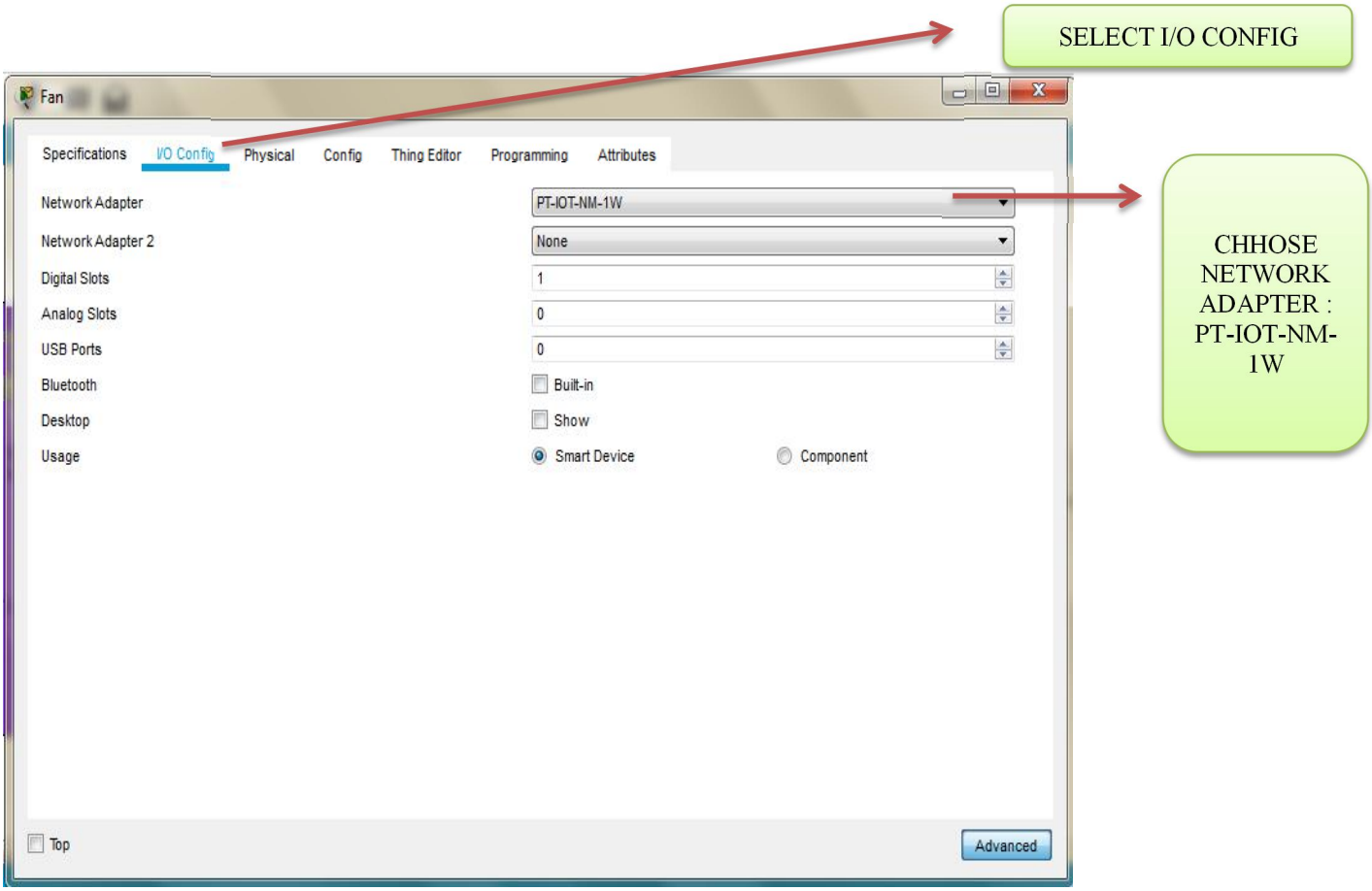


NOW THE TIME IS FOR CONFIGURATION :

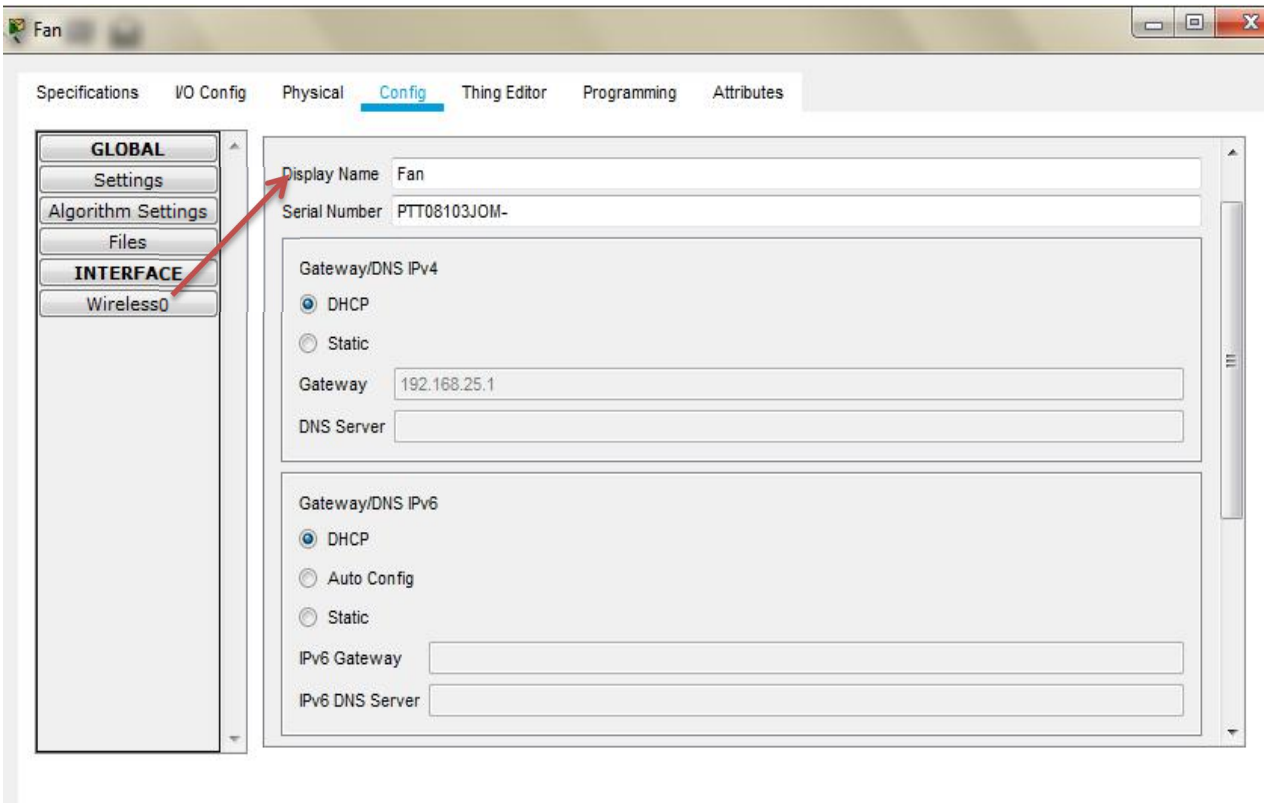
CLICK ON FAN :

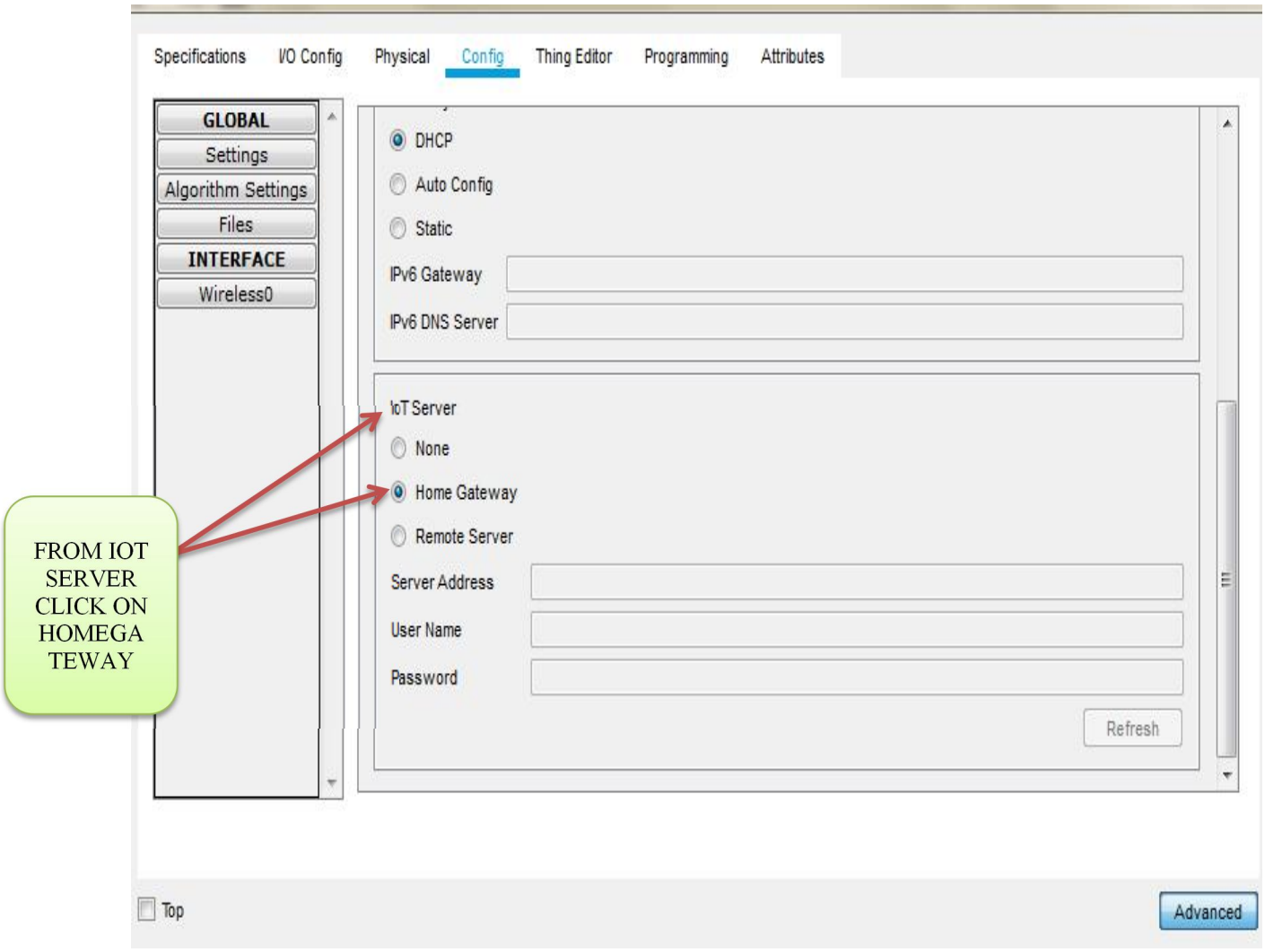


THE FOLLOWING SCREE SHOWN IN FRONT OF YOU:



NOW GO TO CONFIG BAR AND WIRELESS 0 NAME THE DEVICE BY TYPING IN THE FIELD OF DISPLAY NAME:

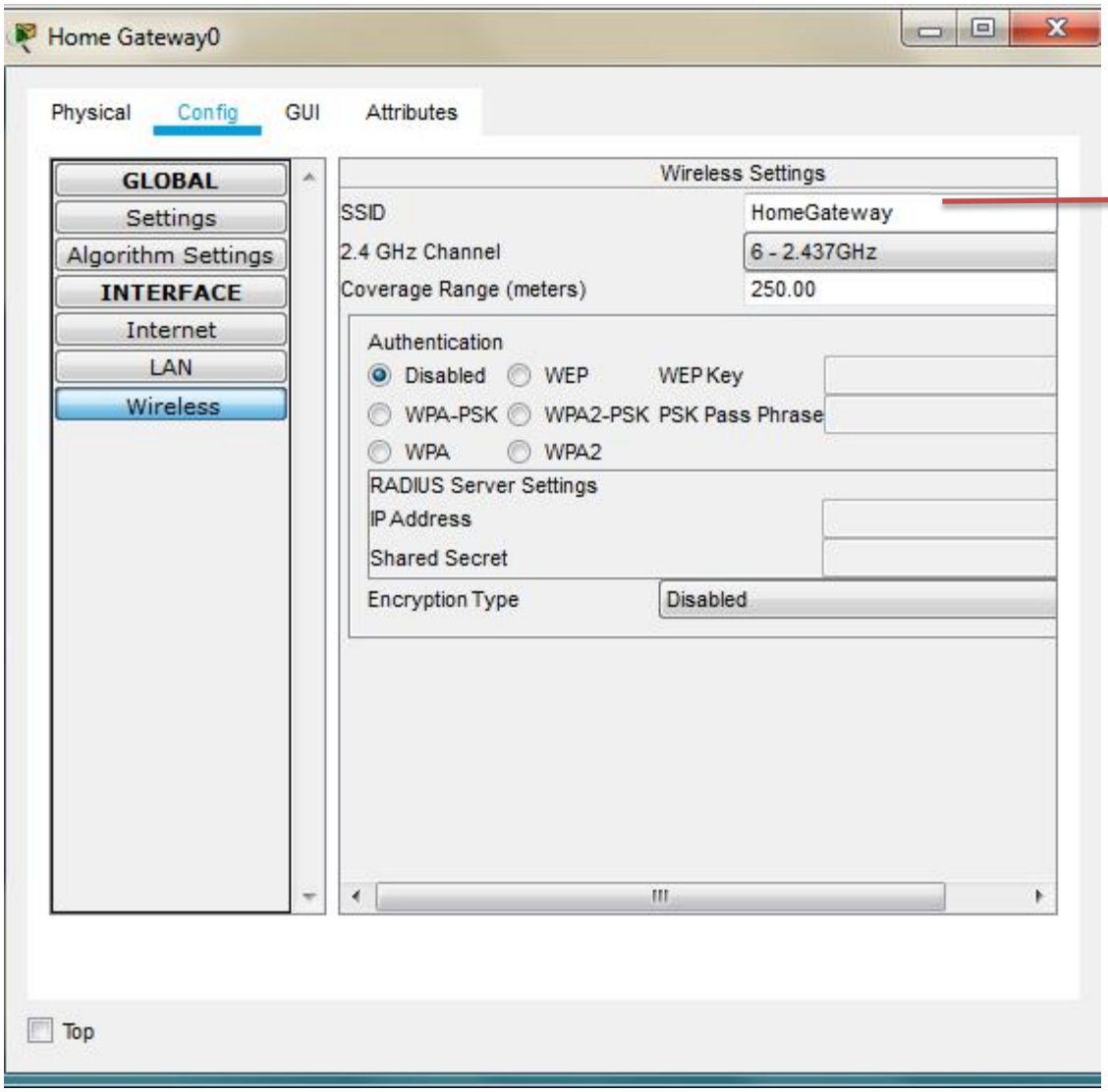




DONE WITH FAN.

NOW THIS IS SAME DONE FOR LAMP AND WE ARE DONE WITH CONFIGURATION OF FAN AND LAMP MEAN END DEVICES

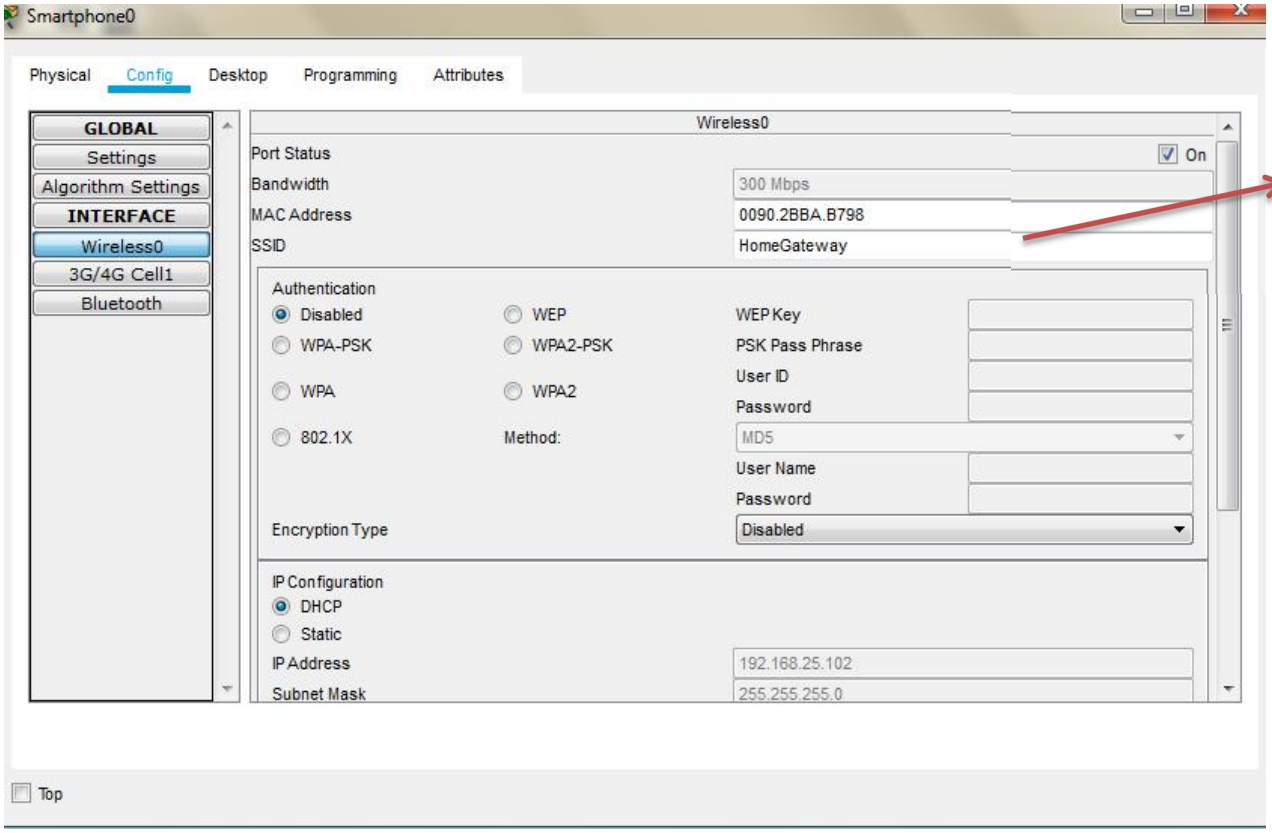
CLICK ON HOME GATEWAY:



COPY THIS SSID

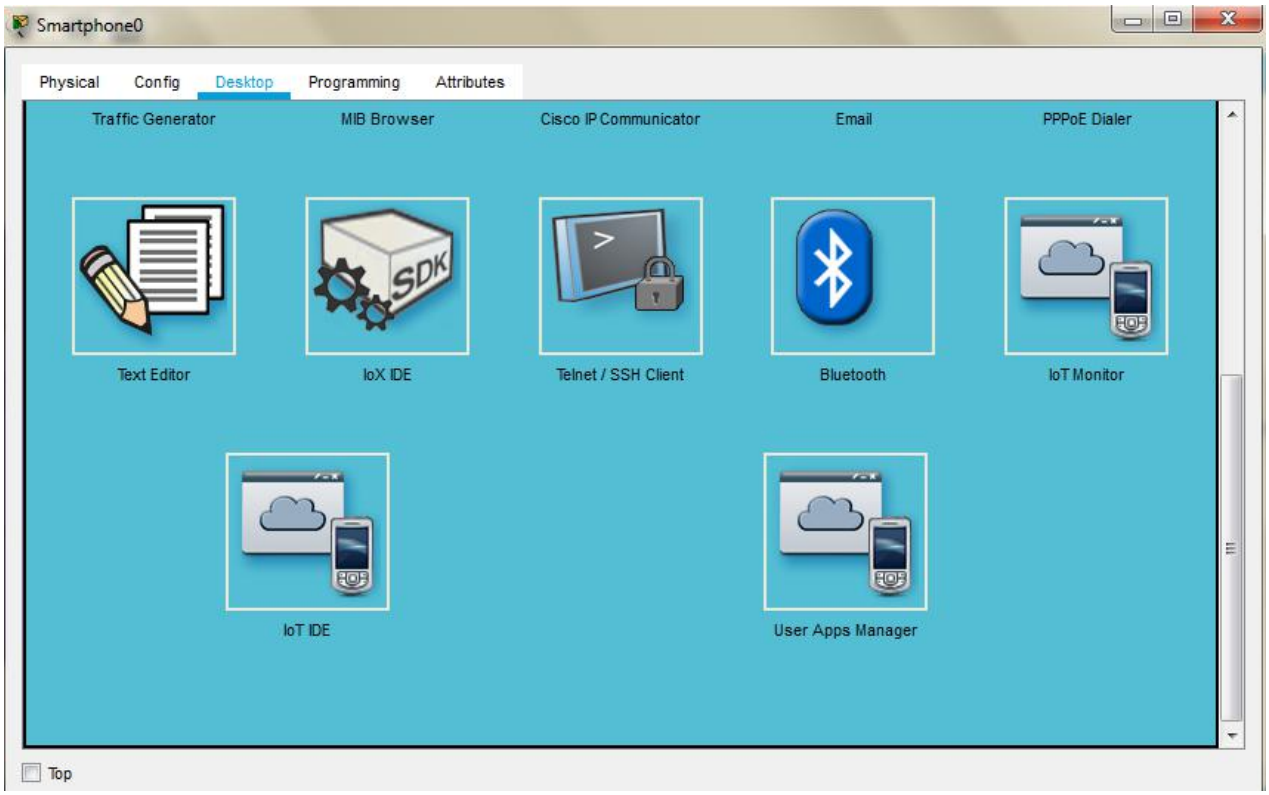
DONE WITH HOME GATEWAY.

CLICK ON SMART PHONE :
NOW IN SMART PHONE GO TO CONFIG AND PASTE THE COPY SSID OF HOME GATEWAY TO SMARTPHONE SSID :

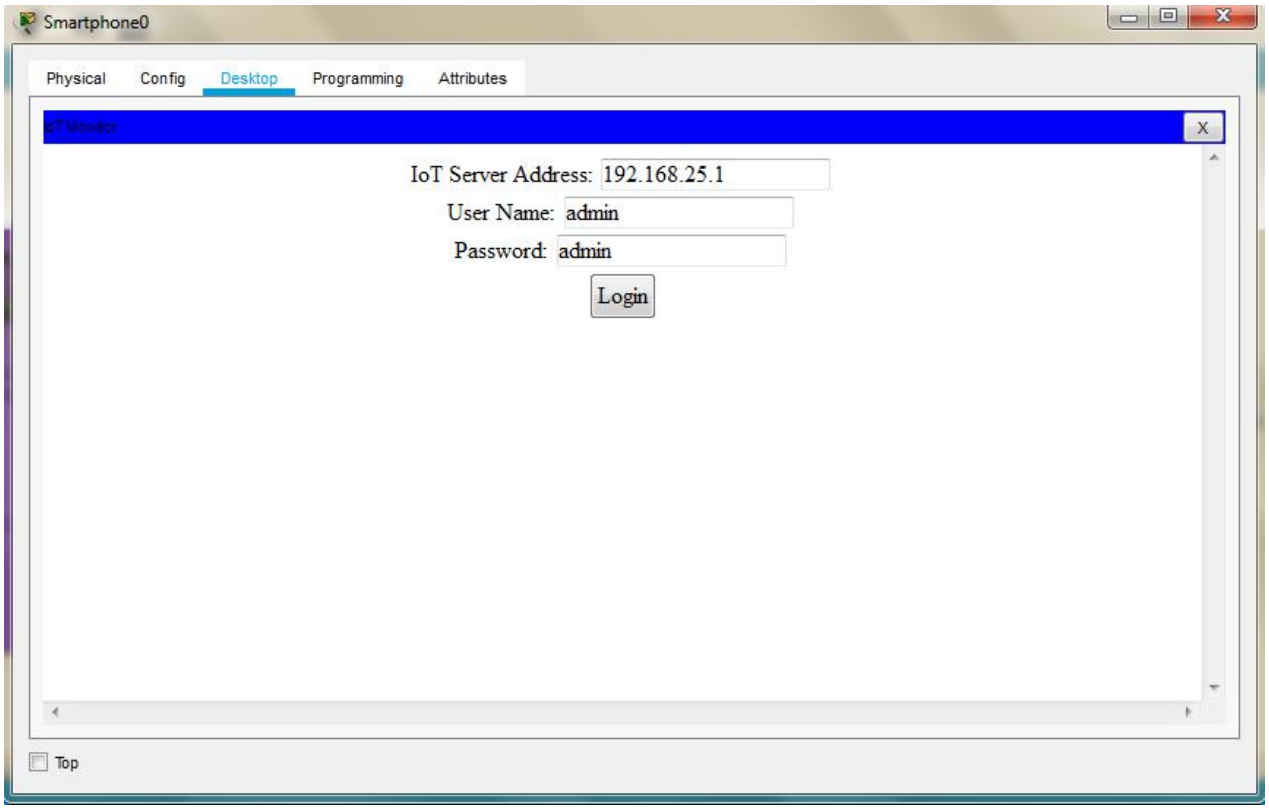


HERE IS PASTE

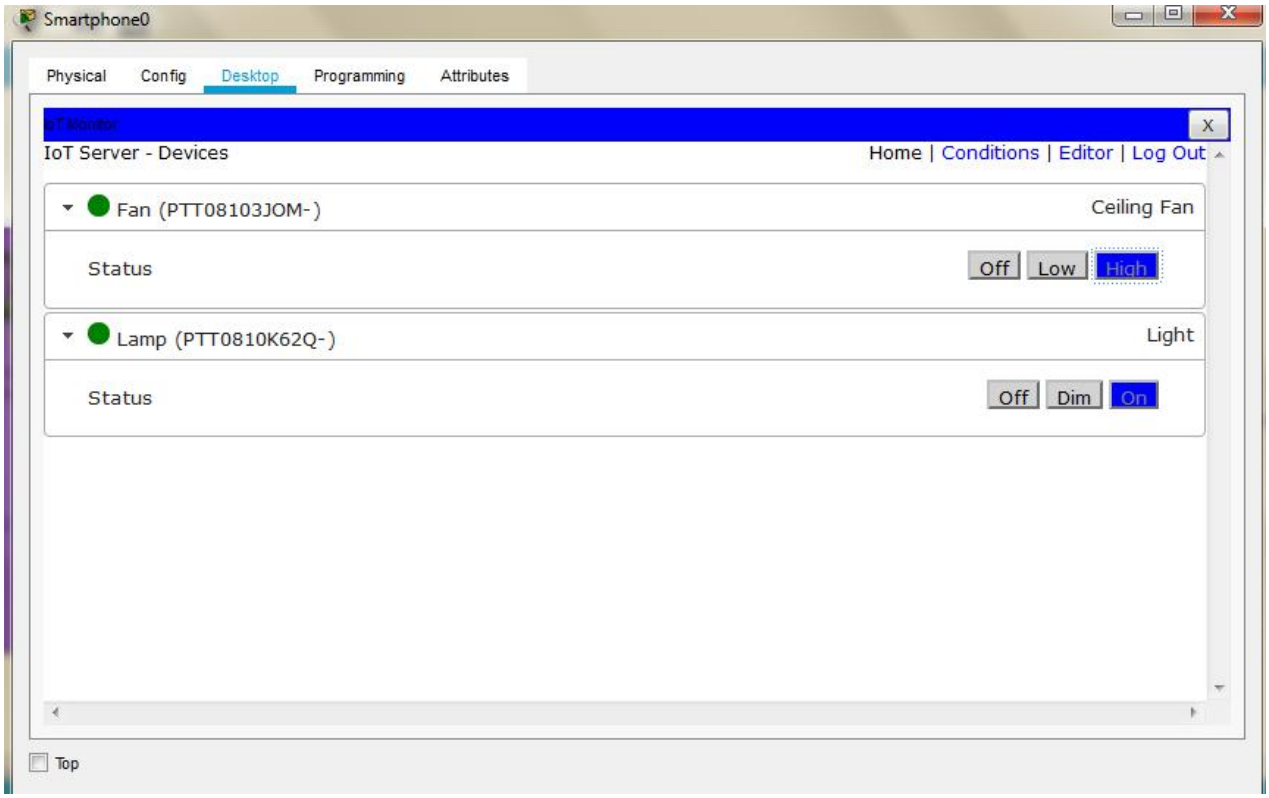
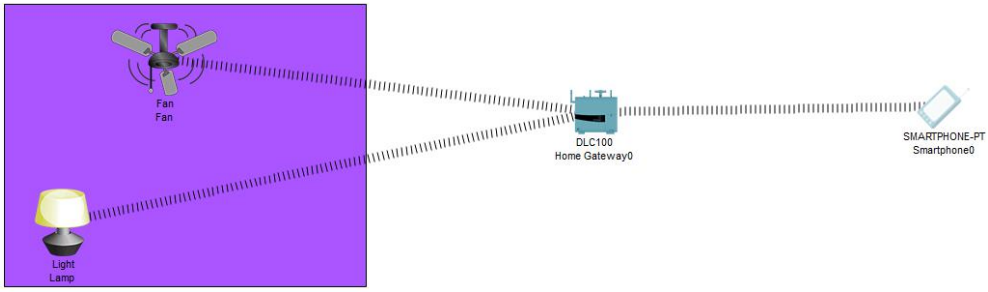
NOW GO TO DESKTOP BAR SELECT IOT MONITOR :



CLICK ON LOGIN



NOW HERE IS YOUR CONTROLLING WINDOW TO TURN ON OR OOF YOUR DEVICES .



AND CONNECTION IS BUILT: HAPPY LEARNING (^-^)