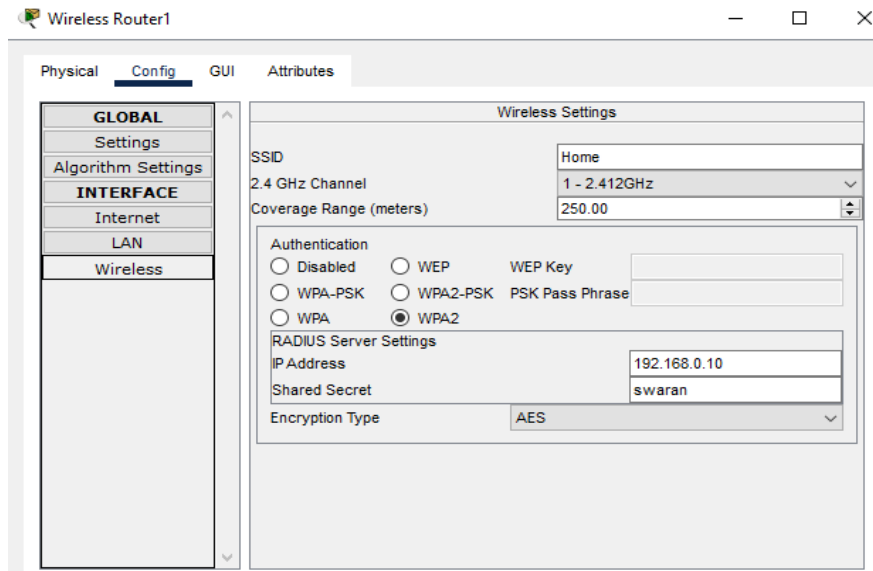


Name:rajiv rathan
Roll no:2320030008
section:7

Experiment 6: Implementation of Smart home using Cisco packet tracer and verify the configuration.

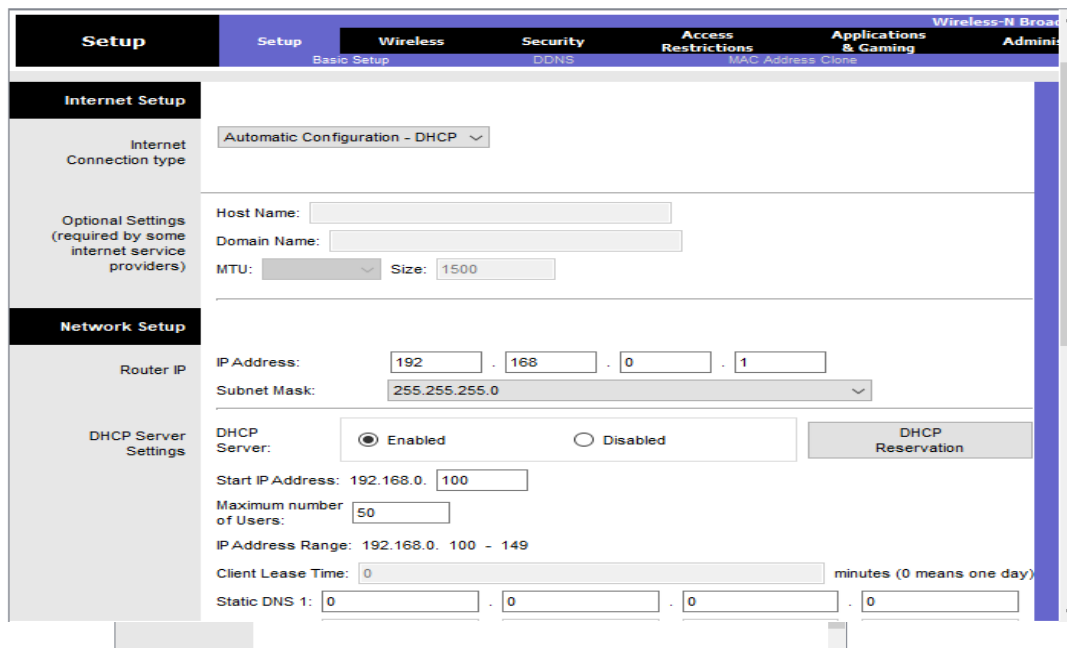
Step 1: Add devices WRT300N Wireless Router,2960-24TTswitch,Server-pt Laptop-PT.

Step 2: open router got to config tab make changes shown in image



wireless

GUI



wireless security

step 3:open server and go to config tab

Physical **Config** Services Desktop Programming Attributes

GLOBAL
Settings
Algorithm Settings
INTERFACE
FastEthernet0

FastEthernet0

Port Status ☒ On

Bandwidth ☐ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 00E0.8FEE.84CD

IP Configuration

☐ DHCP

☒ Static

IPv4 Address 192.168.0.10

Subnet Mask 255.255.255.0

IPv6 Configuration

☐ Automatic

☒ Static

IPv6 Address

Link Local Address: FE80::2E0:8FFF:EEEE:84CD

Physical Config **Services** Desktop Programming Attributes

SERVICES
HTTP
DHCP
DHCPv6
TFTP
DNS
SYSLOG
AAA
NTP
EMAIL
FTP
IoT
VM Management
Radius EAP

AAA

Service ☒ On ☐ Off Radius Port 1645

Network Configuration

Client Name Client IP

Secret ServerType Radius

	Client Name	Client IP	Server Type	Key	
1	Home	192.168.0.1	Radius	swaran	Add

Save Remove

User Setup

Username Password

	Username	Password	
1	cam	cam	Add
2	door	door	
3	fan	fan	Save
4	garage	garage	
5	light	light	Remove
6	window	window	

AAA
step 4: open
laptop

on pc

Global Settings
FastEthernet0

Port Status ☒ On

Bandwidth ☒ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 0090.0CD1.12E9

IP Configuration
☒ DHCP
☐ Static

IPv4 Address 192.168.0.112

Subnet Mask 255.255.255.0

go to

desktop and open iot monitor

IoT Monitor

IoT Server Address: 192.168.0.10

User Name: swaran

Password: swaran

Login

IoT Monitor

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

▶ ● IoT1 (PTT0810D6GG-)	Ceiling Fan
▶ ● IoT2 (PTT081078Q2-)	Light
▶ ● IoT3 (PTT0810SS2G-)	Window
▶ ● IoT4 (PTT0810OUIJ-)	Door
▶ ● IoT0 (PTT081049H6-)	Garage Door
▶ ● IoT5 (PTT081041S9-)	Webcam

step 5: add devices like light,ceiling fan,window,door,garage door,webcam
select a device go to config wireless setting and update similarly update in
server AAA tab.

In
global
setting
update

Wireless0	
Port Status	<input checked="" type="checkbox"/> On
Bandwidth	300 Mbps
MAC Address	000B.BEE1.26C1
SSID	Home
Authentication	

Display Name	IoT2
Serial Number	PTT081078Q2-
Interfaces	Wireless0
Gateway/DNS IPv4	
<input checked="" type="radio"/> DHCP	
<input type="radio"/> Static	
Default Gateway	192.168.0.1
DNS Server	0.0.0.0
Gateway/DNS IPv6	
<input checked="" type="radio"/> Automatic	
<input type="radio"/> Static	
Default Gateway	
DNS Server	
IoT Server	
<input type="radio"/> None	
<input type="radio"/> Home Gateway	
<input checked="" type="radio"/> Remote Server	
Server Address	192.168.0.10
User Name	swaran
Password	swaran