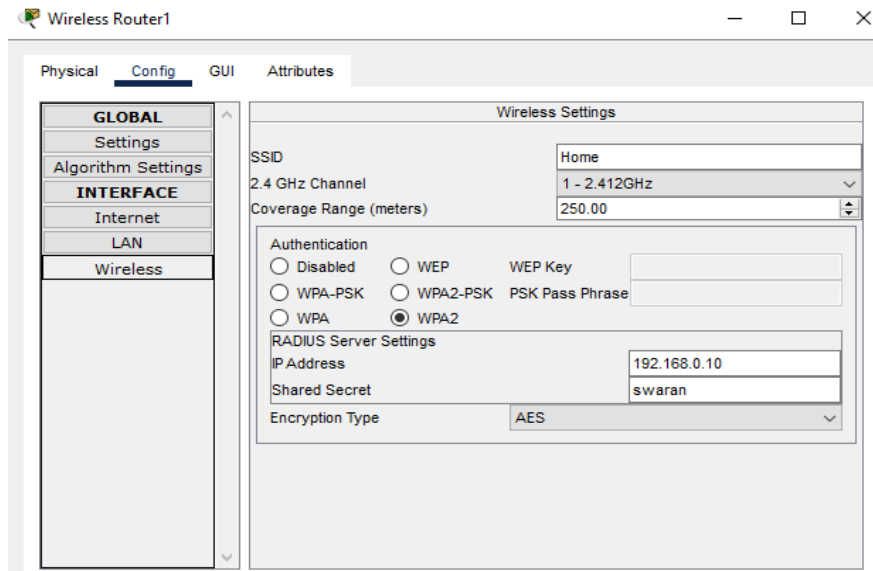


Name:G.swaran chandra
Roll no:2320030337
section:7

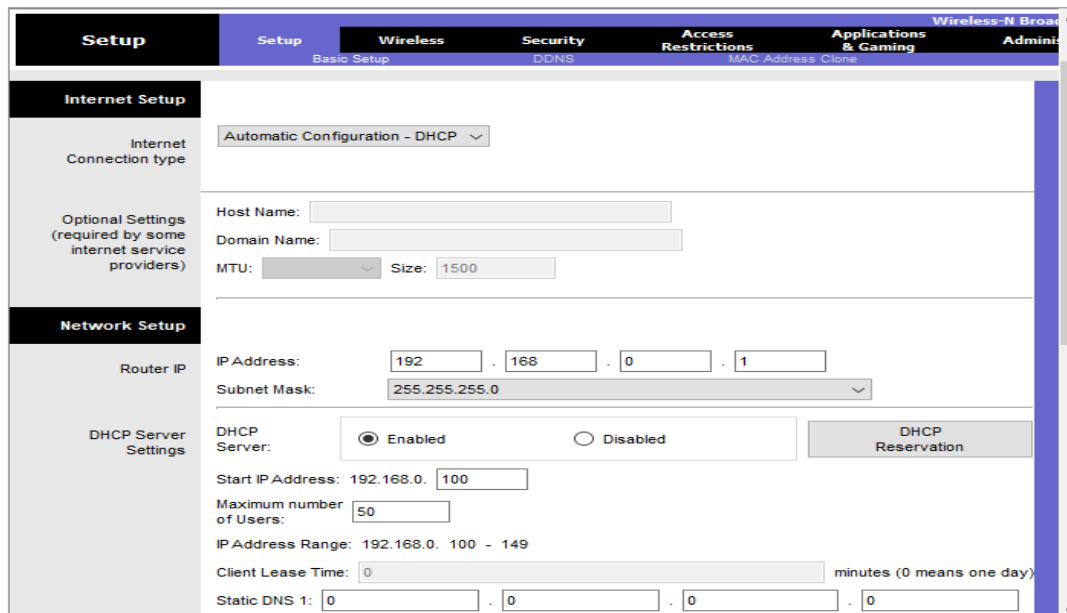
Experiment 6: Implementation of Smart home using Cisco packet tracer and verify the configuration.

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

Physical Config **GUI** Attributes

Wireless

Setup

Wireless

Security

Access Restrictions

Applications & Gaming

Basic Wireless Settings

Wireless Security

Guest Network

Wireless MAC Filter

Wireless Security

Security Mode:

WPA2 Enterprise

Encryption:

AES

RADIUS Server:

192

168

0

10

RADIUS Port:

1645

Shared Secret:

swaran

Key Renewal:

3600

seconds

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:FEEE: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

Global Settings

Display Name

cilent

Interfaces

FastEthernet0

Gateway/DNS IPv4

☒ DHCP

☐ Static

Default Gateway

192.168.0.1

DNS Server

0.0.0.0

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

on pc go to desktop and open iot monitor

IoT Monitor

IoT Server Address:

192.168.0.10







User Name:

swaran

Password:

swaran

Login

IoT Monitor		X
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.

Wireless0	
Port Status	<input checked="" type="checkbox"/> On
Bandwidth	300 Mbps
MAC Address	000B.BEE1.26C1
SSID	Home
Authentication <input 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 checked="" type="radio"/> WPA2 User ID: light <input type="radio"/> 802.1X Method: MD5 Password: light Encryption Type: AES	
IP Configuration <input checked="" type="radio"/> DHCP <input type="radio"/> Static IPv4 Address: 192.168.0.108 Subnet Mask: 255.255.255.0	
IPv6 Configuration <input checked="" type="radio"/> Automatic <input type="radio"/> Static IPv6 Address: / Link Local Address: FE80::20B:BEFF:FEE1:26C1	

In global setting update

Display Name	IoT2
Serial Number	PTT081078Q2-
Interfaces	Wireless0

Gateway/DNS IPv4

☒ DHCP

☐ Static

Default Gateway 192.168.0.1

DNS Server 0.0.0.0

Gateway/DNS IPv6

☒ Automatic

☐ Static

Default Gateway

DNS Server

IoT Server

☐ None

☐ Home Gateway

☒ Remote Server

Server Address 192.168.0.10

User Name swaran

Password swaran