



AMERICAN INTERNATIONAL UNIVERSITY–BANGLADESH (AIUB)

FACULTY OF SCIENCE & TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Computer Network

Spring 2024-2025

Section: D

FINAL TERM LAB TASKS

Supervised By

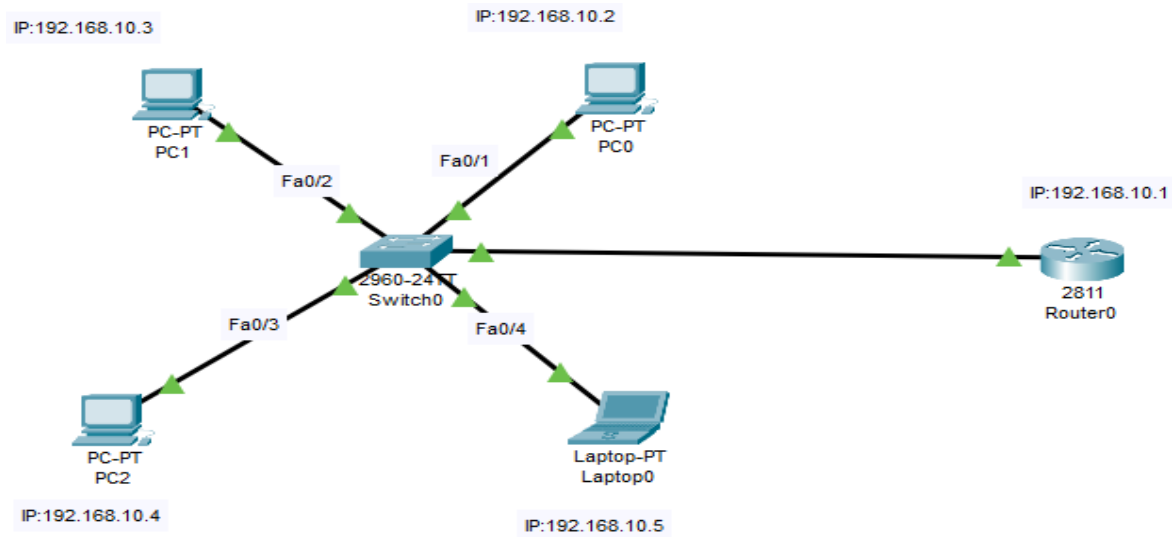
Dr. Rajarshi Roy Chowdhury

Submitted By

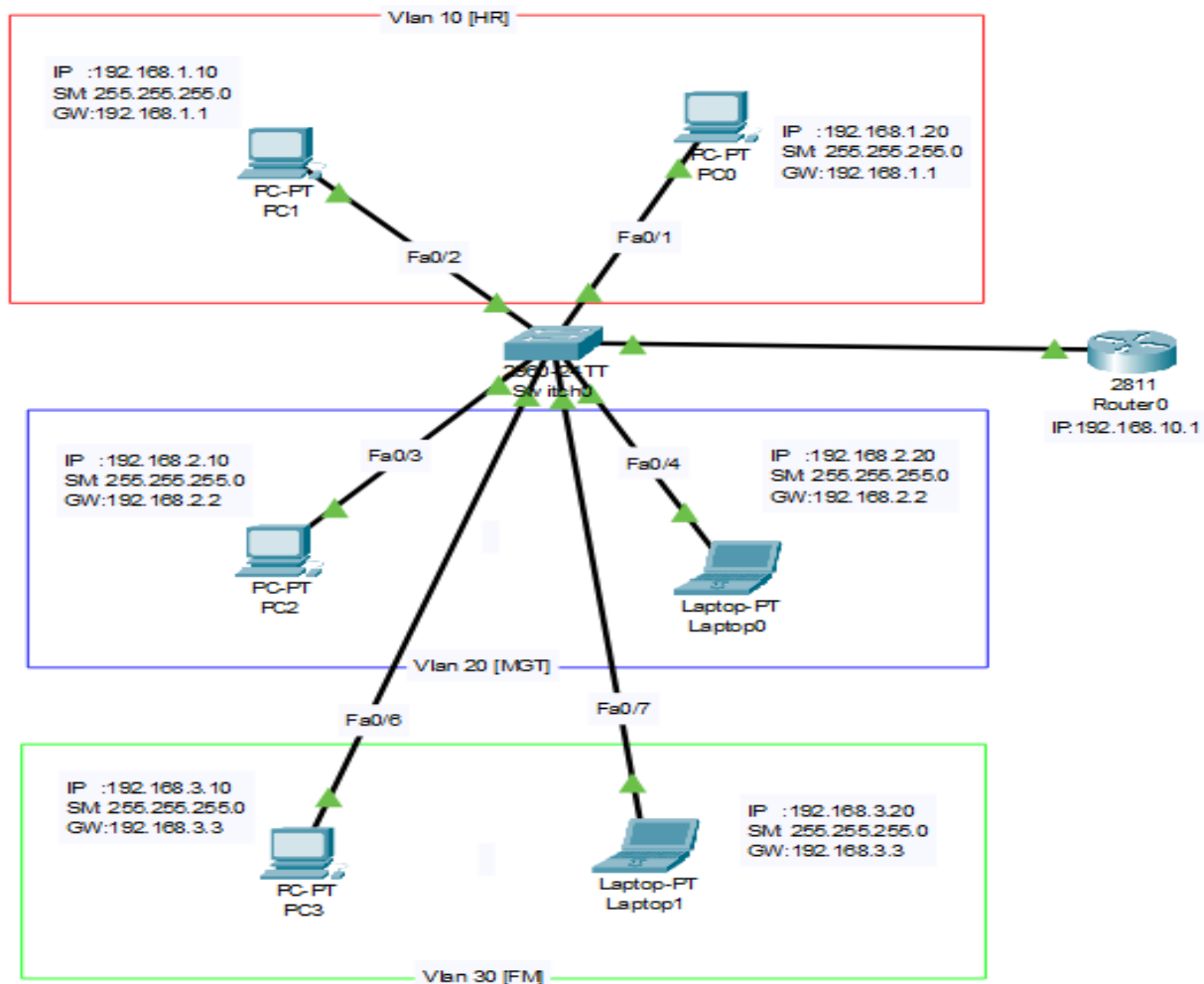
Name	ID
Fatema Akter Tripty	22-46989-1

Date of Submission: May 26, 2025

Task – 1



Task – 2



SWITCH CONFIGURATION

```
Sw itch>enable
Sw itch#config terminal
Enter configuration commands , one per line. End with CNTL/Z.
Sw itch(config)#vlan 10
Sw itch(config-vlan)#name HR
Sw itch(config-vlan)#vlan 20
Sw itch(config-vlan)#name MGT
Sw itch(config-vlan)#
Sw itch(config-vlan)#int fa0/2
Sw itch(config-if)#switchport mode access
Sw itch(config-if)#switchport access vlan 10
Sw itch(config-if)#int fa0/1
Sw itch(config-if)#switchport mode access
Sw itch(config-if)#switchport access vlan 10
Sw itch(config-if)#
Sw itch(config-if)#int fa0/3
Sw itch(config-if)#switchport mode access
Sw itch(config-if)#switchport access vlan 20
Sw itch(config-if)#int fa0/4
Sw itch(config-if)#switchport mode access
Sw itch(config-if)#switchport access vlan 20
Sw itch(config-if)#
Sw itch(config-if)#int fa0/5
Sw itch(config-if)#switchport mode trunk
```

```
Sw itch>enable
Sw itch#config terminal
Enter configuration commands , one per line. End with CNTL/Z.
Sw itch(config)#vlan 30
Sw itch(config-vlan)#name FM
Sw itch(config-vlan)#int fa0/6
Sw itch(config-if)#switchport mode access
Sw itch(config-if)#switchport access vlan 30
Sw itch(config-if)#int fa0/7
Sw itch(config-if)#switchport mode access
Sw itch(config-if)#switchport access vlan 30
```

ROUTER CONFIGURATION

```
Router>en
Router#conf t
Enter configuration commands , one per line. End with CNTL/Z.
Router(config)#int fa0/0
Router(config-if)#no shutdown
Router(config-if)#int fa0/0.10
Router(config-subif)#
%LINK-5-CHANGED: Interface FastEthernet0/0.10, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0.10, changed state to up

Router(config-subif)#encapsulation dot1q 10
Router(config-subif)#ip add 192.168.1.1 255.255.255.0
Router(config-subif)#int fa0/0.20
Router(config-subif)#
%LINK-5-CHANGED: Interface FastEthernet0/0.20, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0.20, changed state to up

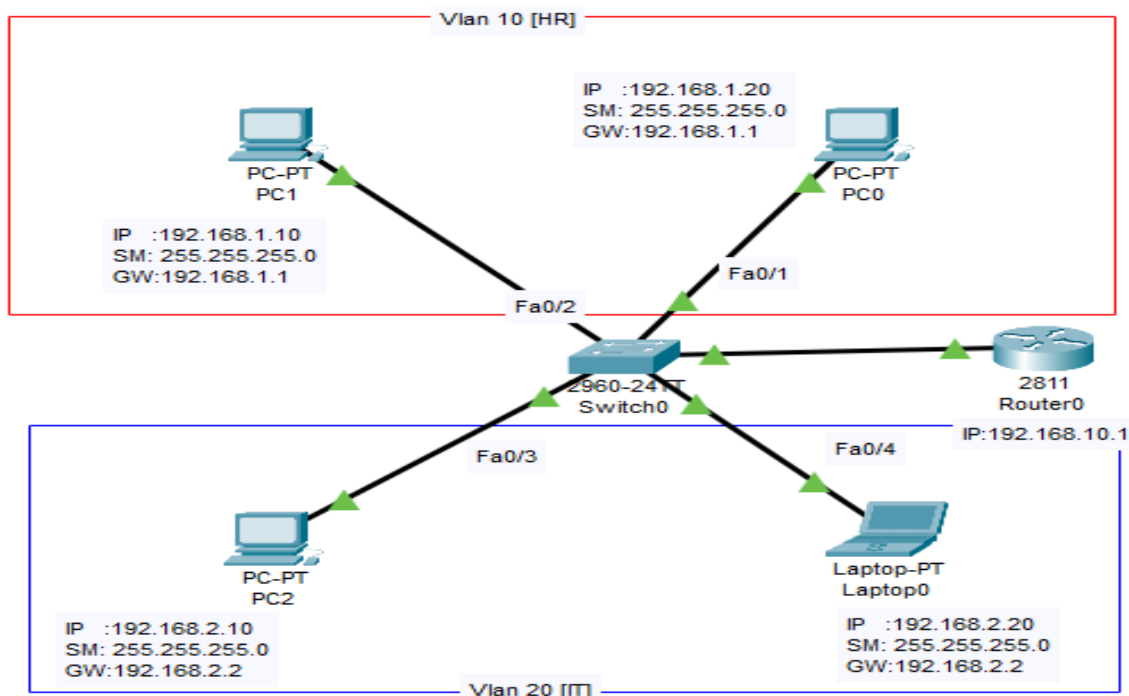
Router(config-subif)#encapsulation dot1q 20
Router(config-subif)#ip add 192.168.2.2 255.255.255.0
Router(config-subif)#
Router#

Router>en
Router#conf t
Enter configuration commands , one per line. End with CNTL/Z.
Router(config)#int fa0/0
Router(config-if)#no shutdown
Router(config-if)#int fa0/0.30
Router(config-subif)#
%LINK-5-CHANGED: Interface FastEthernet0/0.30, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0.30, changed state to up

Router(config-subif)#encapsulation dot1q 30
Router(config-subif)#ip
```

Task – 3



```

Switch>enable
Switch#config terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#vlan 10
Switch(config-vlan)#name HR
Switch(config-vlan)#vlan 20
Switch(config-vlan)#name MGT
Switch(config-vlan)#
Switch(config-vlan)#int fa0/2
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 10
Switch(config-if)#int fa0/1
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 10
Switch(config-if)#
Switch(config-if)#int fa0/3
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 20
Switch(config-if)#int fa0/4
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 20
Switch(config-if)#
Switch(config-if)#int fa0/5
Switch(config-if)#switchport mode trunk

```

```

Router>en
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int fa0/0
Router(config-if)#no shutdown
Router(config-if)#int fa0/0.10
Router(config-subif)#
%LINK-5-CHANGED: Interface FastEthernet0/0.10, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0.10, changed state to up

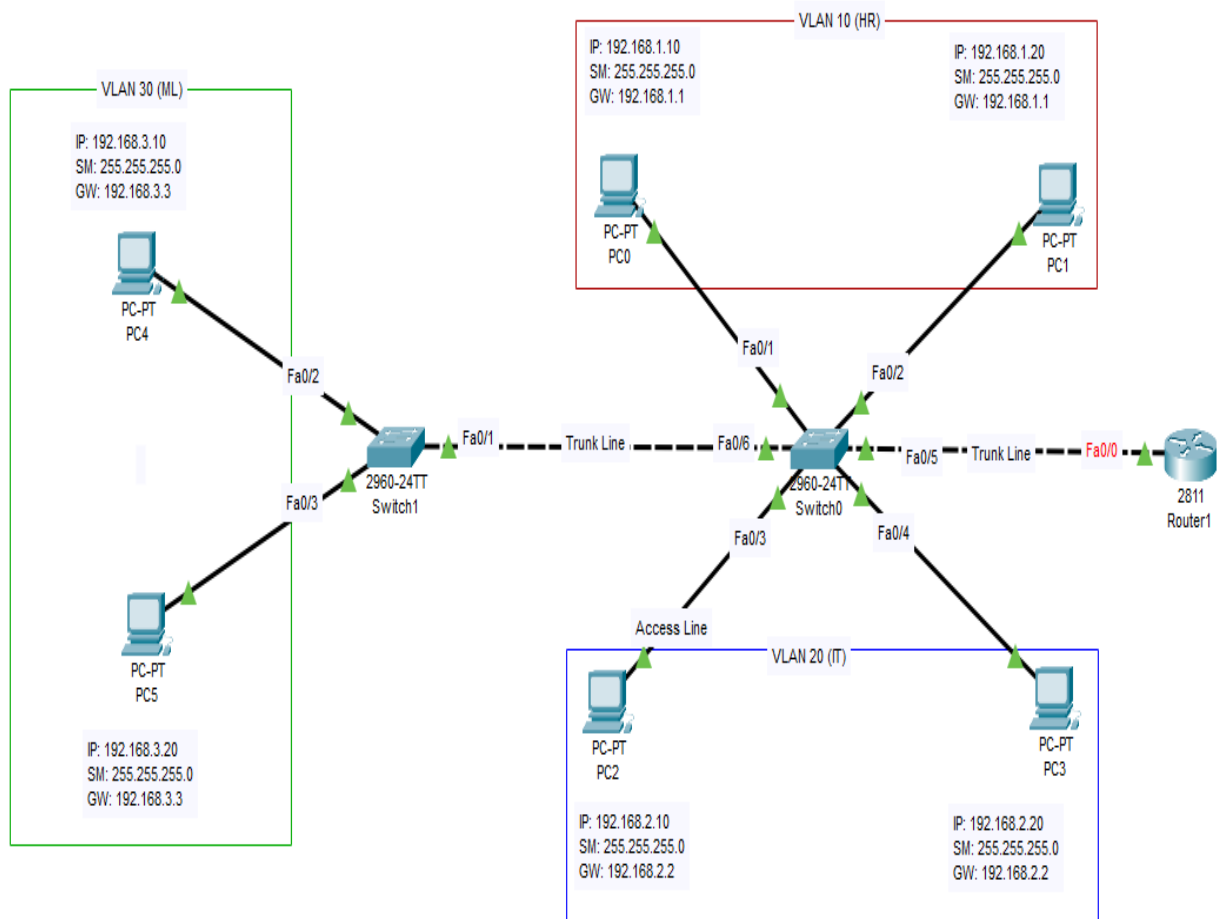
Router(config-subif)#encapsulation dot1q 10
Router(config-subif)#ip add 192.168.1.1 255.255.255.0
Router(config-subif)#int fa0/0.20
Router(config-subif)#
%LINK-5-CHANGED: Interface FastEthernet0/0.20, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0.20, changed state to up

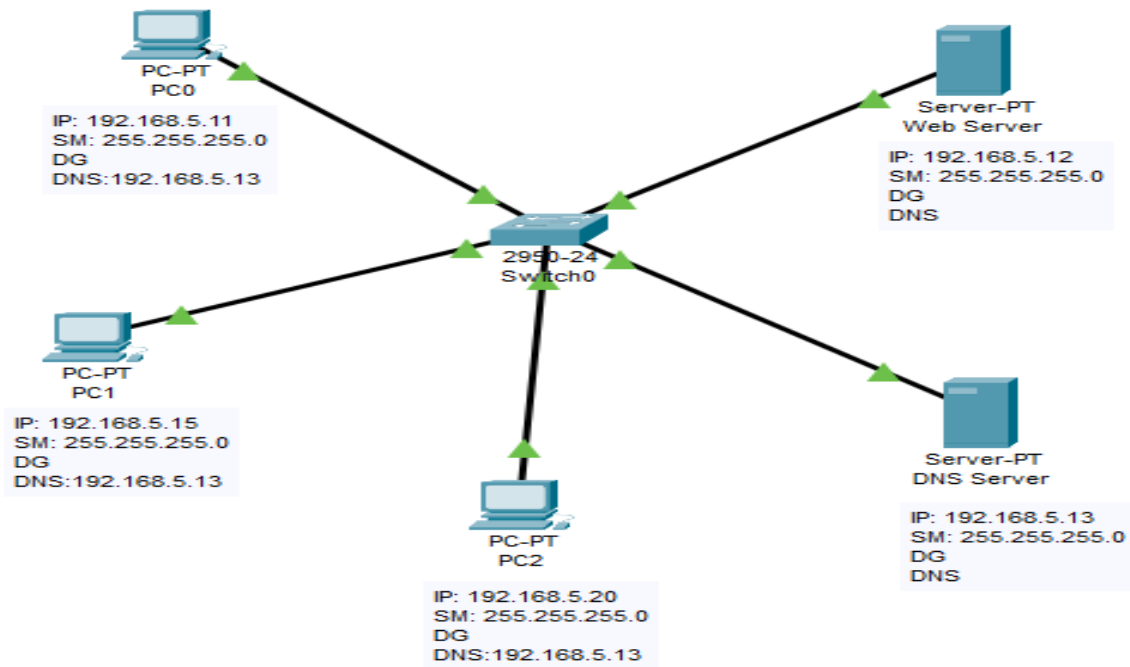
Router(config-subif)#encapsulation dot1q 20
Router(config-subif)#ip add 192.168.2.2 255.255.255.0
Router(config-subif)#
Router#

```

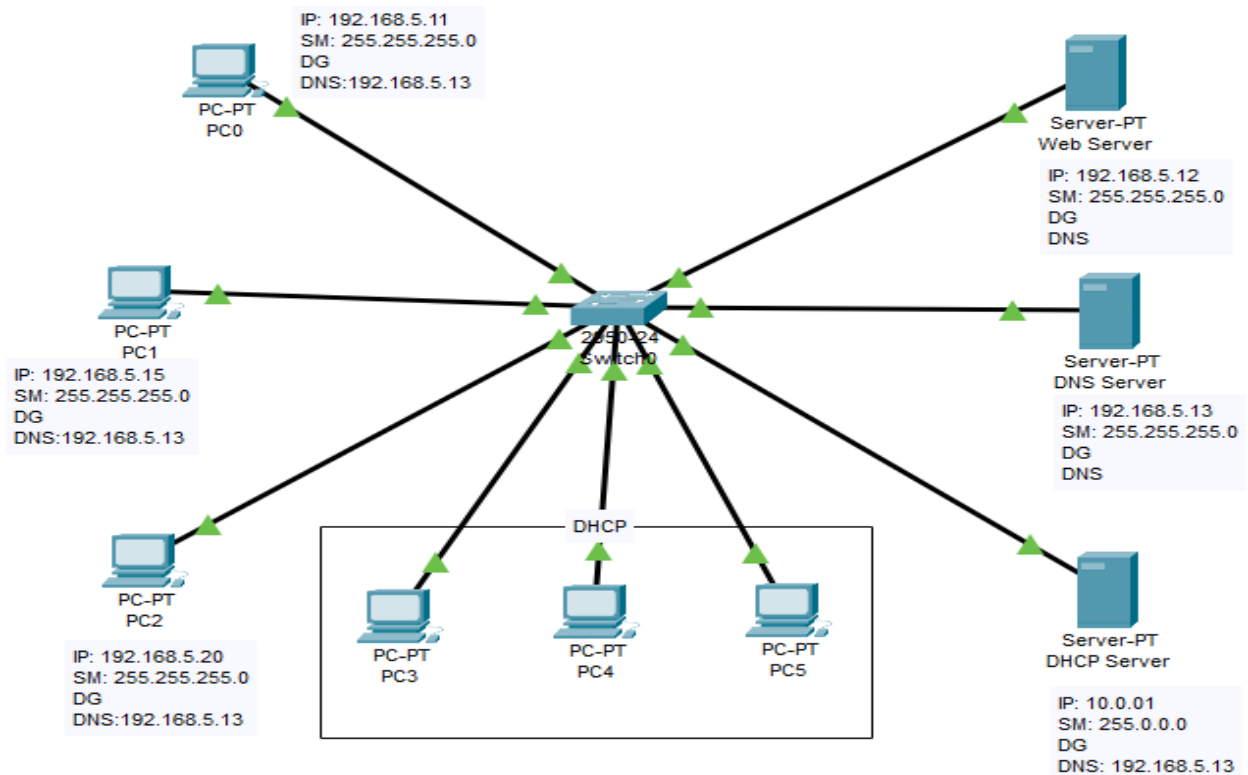
Task – 4



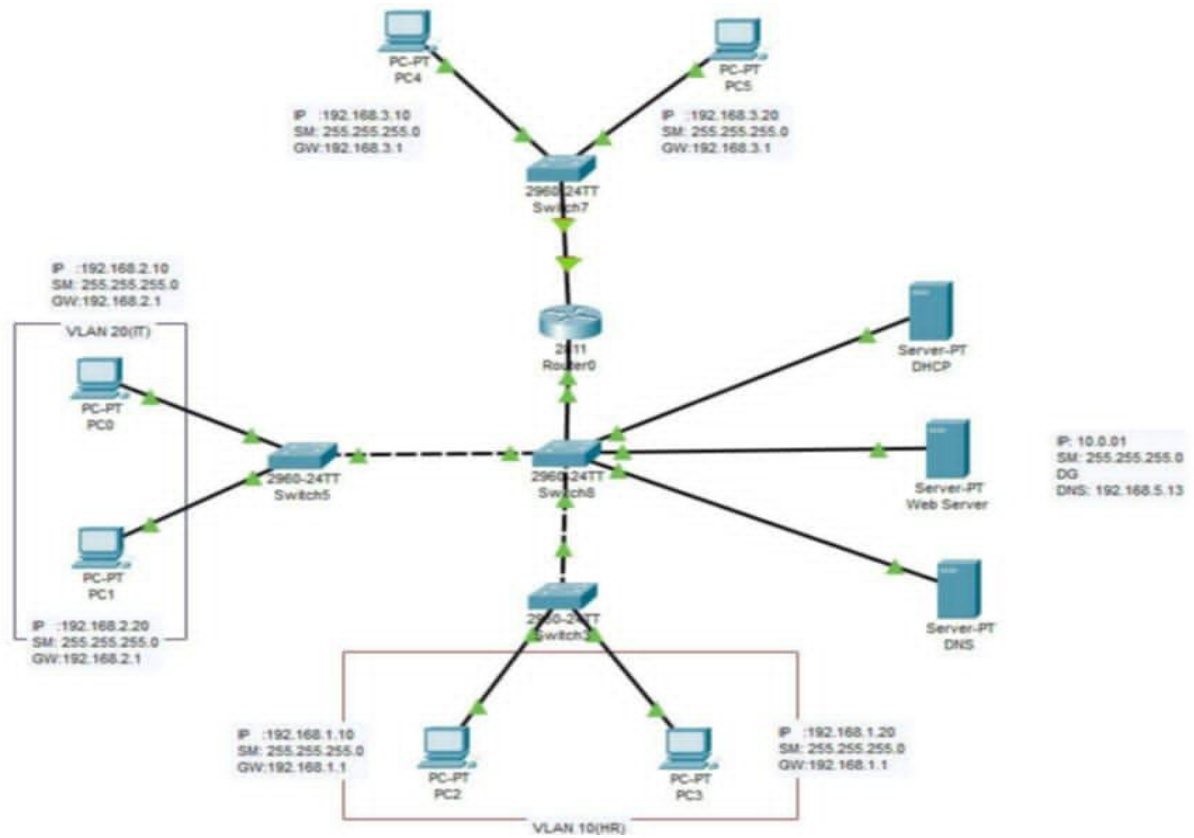
Task – 4



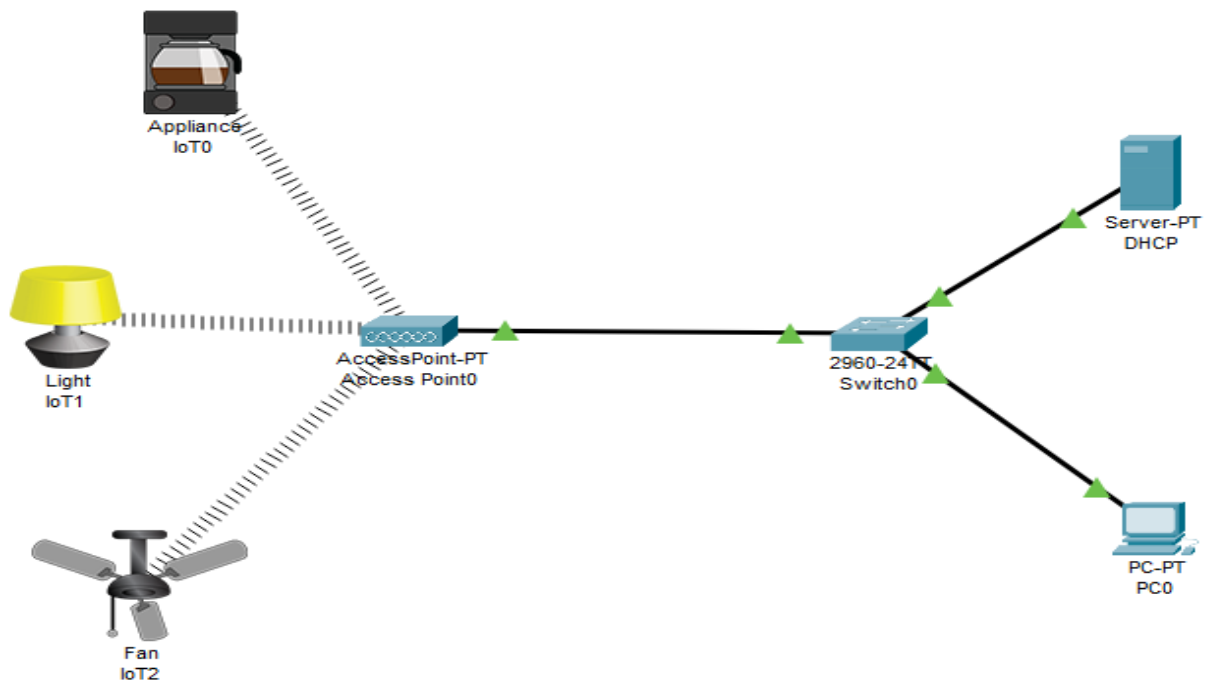
Task – 5



Task – 6



Task – 7



Task – 8

