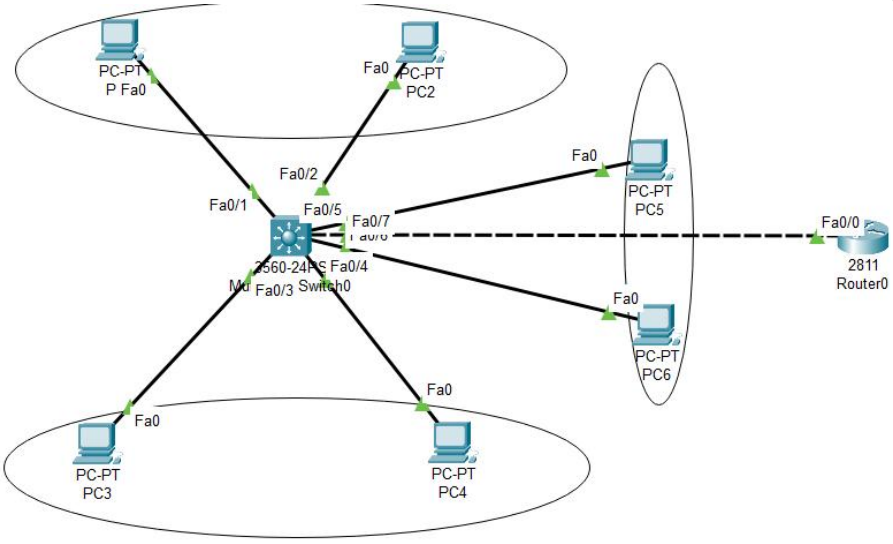
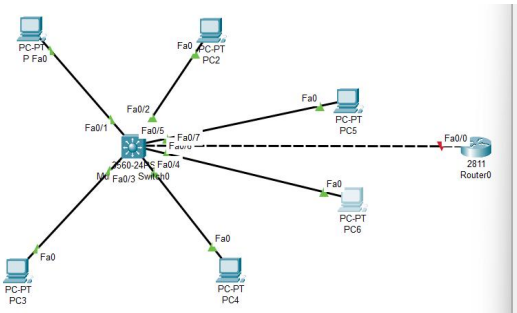
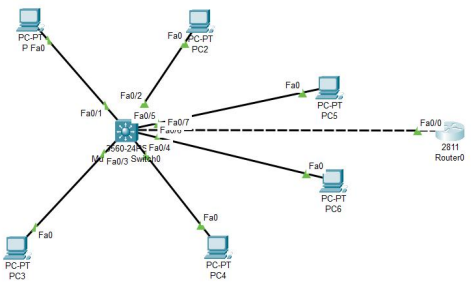
Name: Akshita RollNo: 102203527 Subgroup:CO-34

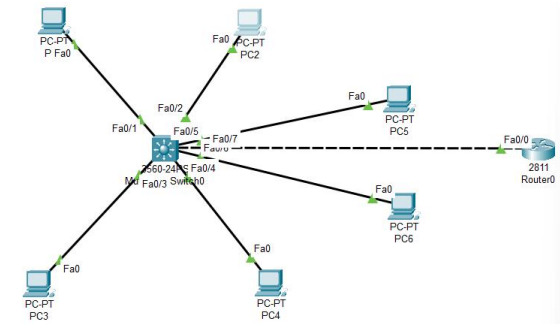




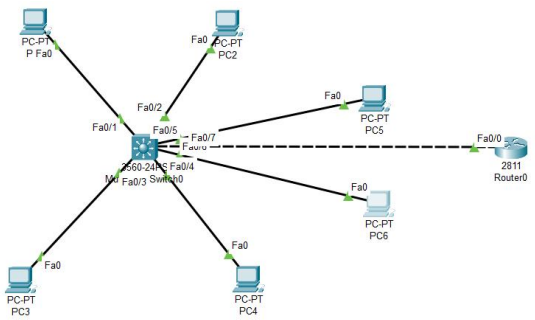

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3, changed state to up

%LINK-5-CHANGED: Interface FastEthernet0/6, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/6, changed state to up

                   ^
% Invalid input detected at '^' marker.

Switch(config-vlan)#ex
Switch(config)#vlan 10
Switch(config-vlan)#name HR Department
                          ^
% Invalid input detected at '^' marker.

Switch(config-vlan)#name HR_Department
Switch(config-vlan)#vlan 20
Switch(config-vlan)#name IT_Department
Switch(config-vlan)#vlan 30
Switch(config-vlan)#name Sales_Department
Switch(config-vlan)#ex
Switch(config)#int fa0/1
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 10
Switch(config-if)#int fa0/2
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 10
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)#int fa0/5
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 30
Switch(config-if)#int fa0/6
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 30
Switch(config-if)#int fa0/7
Switch(config-if)#switchport mode trunk
```




```
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

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 198.27.10.10 255.255.255.0
Router(config-subif)#encapsulation dot1q 20
Router(config-subif)#ip add 198.27.20.10 255.255.255.0
Router(config-subif)#encapsulation dot1q 30
Router(config-subif)#ip add 198.27.20.10 255.255.255.0
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 198.27.20.10 255.255.255.0
% 198.27.20.0 overlaps with FastEthernet0/0.10
Router(config-subif)#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
```




```
Command Prompt

Cisco Packet Tracer PC Command Line 1.0
C:\>ping 198.27.10.10

Pinging 198.27.10.10 with 32 bytes of data:

Reply from 198.27.10.10: bytes=32 time<1ms TTL=128
Reply from 198.27.10.10: bytes=32 time=1ms TTL=128
Reply from 198.27.10.10: bytes=32 time<1ms TTL=128
Reply from 198.27.10.10: bytes=32 time<1ms TTL=128

Ping statistics for 198.27.10.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>
```




```
Command Prompt

Cisco Packet Tracer PC Command Line 1.0
C:\>ping 198.27.30.10

Pinging 198.27.30.10 with 32 bytes of data:

Reply from 198.27.30.10: bytes=32 time<1ms TTL=128
Reply from 198.27.30.10: bytes=32 time<1ms TTL=128
Reply from 198.27.30.10: bytes=32 time<1ms TTL=128
Reply from 198.27.30.10: bytes=32 time<1ms TTL=128

Ping statistics for 198.27.30.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```