VoIP Task

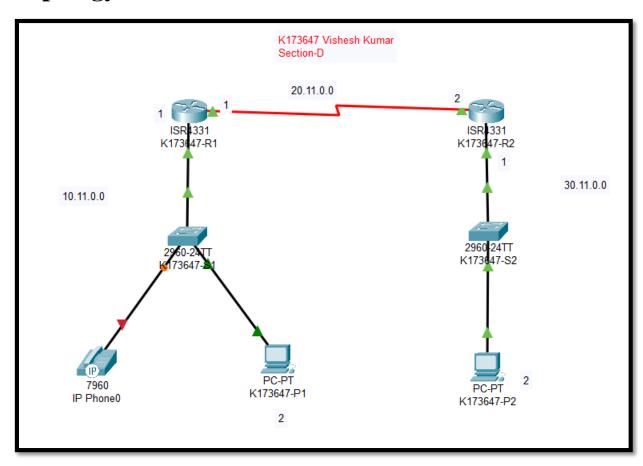
Name: Vishesh Kumar

ID: K173647

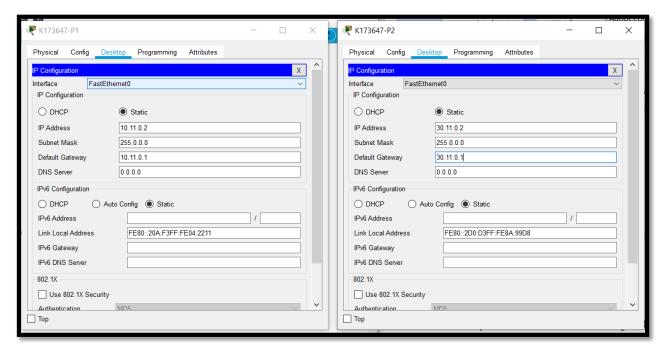
Section: D

Question No. 1

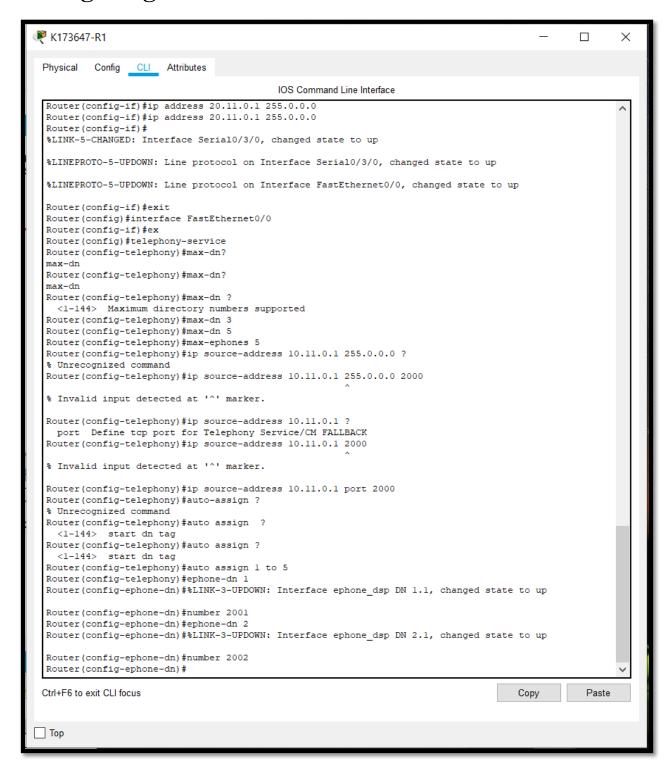
Topology:



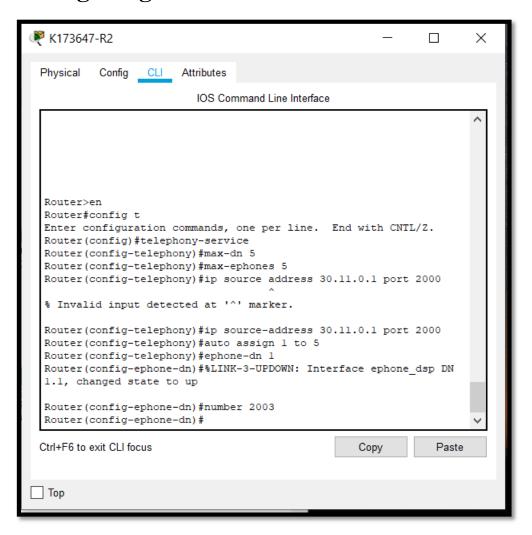
Assigning IP's to PCs:



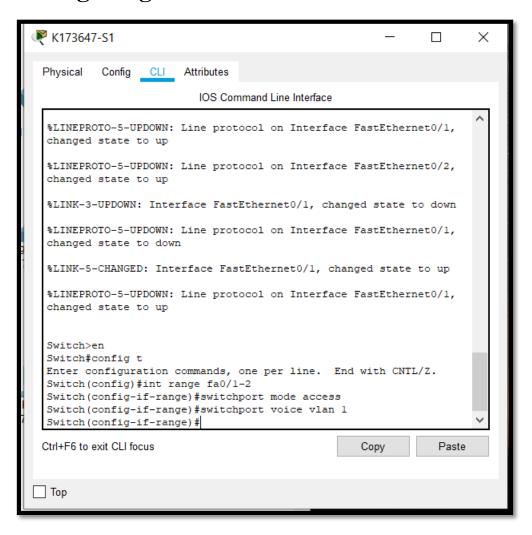
Configuring Router 1:



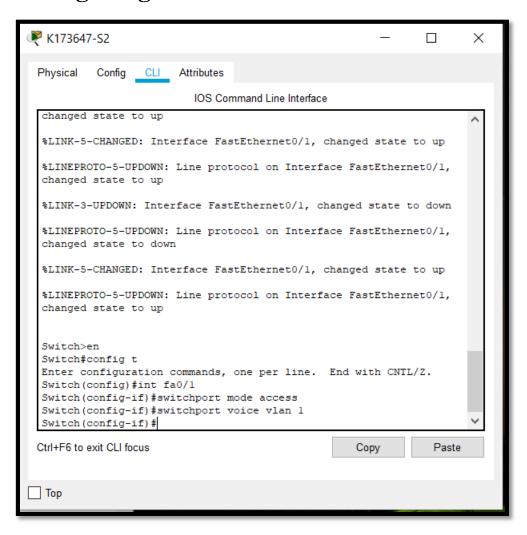
Configuring Router 2:



Configuring Switch 1:



Configuring Switch 2:

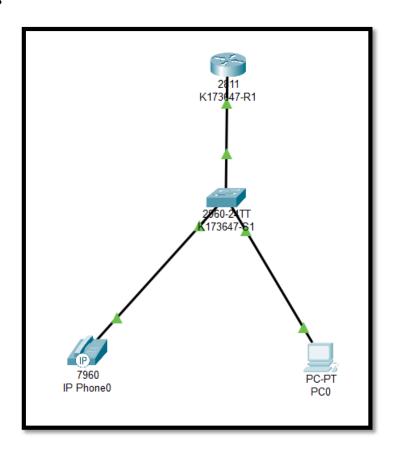


Call from IP phone to PC2:



Question No. 2

Topology:



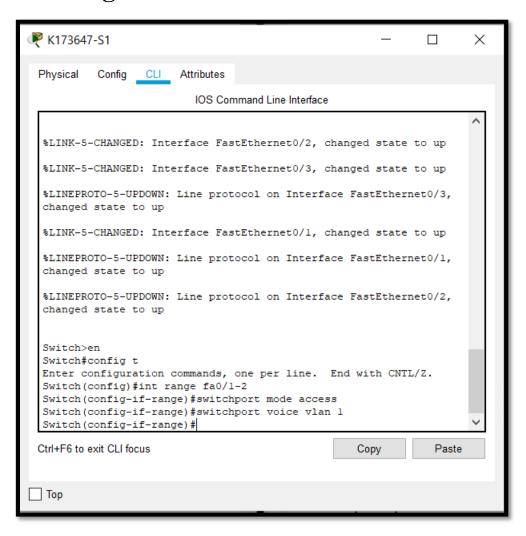
Configuring DHCP in Router:

```
Router>en
Router#config t
Enter configuration commands, one per line. End with CNTL/Z.
Router (config) #
Router(config) #interface FastEthernet0/0
Router(config-if) #ip address 192.168.1.1 255.255.255.0
Router(config-if) #ip dhcp pool voice
Router(dhcp-config) #network 192.168.1.1 255.255.255.0
Router (dhcp-config) #default-router 192.168.1.1
Router (dhcp-config) #option 150 ip 192.168.1.1
Router (dhcp-config) #ex
Router(config) #no shut
% Invalid input detected at '^' marker.
Router(config) #no shutdown
% Invalid input detected at '^' marker.
Router(config)#
Router(config) #interface FastEthernet0/0
Router(config-if) #no shutdown
```

Enabling Telephony-Service in Router:

```
Router (config) #telephony-service
Router (config-telephony) #max-dn 2
Router(config-telephony) #max-ephones 2
Router(config-telephony) #ip source address 192.168.1.1 port 2000
% Invalid input detected at '^' marker.
Router(config-telephony) #ip source-address 192.168.1.1 port 2000
Router(config-telephony) #auto assign 1 to 2
Router (config-telephony) #phone-dn 1
% Invalid input detected at '^' marker.
Router (config-telephony) #ephone-dn 1
Router(config-ephone-dn) #%LINK-3-UPDOWN: Interface ephone dsp DN 1.1, changed
state to up
Router(config-ephone-dn)#number 1000
Router(config-ephone-dn) #ephone-dn 2
Router(config-ephone-dn) #%LINK-3-UPDOWN: Interface ephone dsp DN 2.1, changed
state to up
Router(config-ephone-dn) #number 2000
Router (config-ephone-dn) #
```

Enabling VLAN in Switch:



Call from IP Phone0 to PC:

