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Enrollment No – BT21GCS161

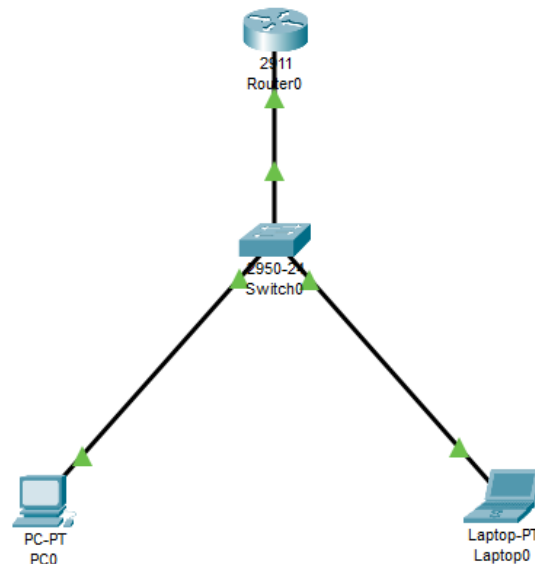*Computer Network (CS – 261)*

Assignment -03

Activity 3 – IP address

Objective – IP address configuration

Step1-

Assign IP address to PC0 and laptop0

a) *Select PC0 then navigate to its Desktop and open the IP configuration*
b) *Provide IPv4 Address and Default Gateway*
c) *Once you provide IPv4 address click on Subnet mask, it will automatically provide subnet mask*

Repeat the same steps for another device

Step 2-

Configure router –

a) *Select the router (Router-2911) and access the Command Line Interface (CLI)*
b) *Enter enable mode by using 'ena.' Once you gain access, proceed to configuration mode by using 'conf'*
c) *Type "interface fastethernet0/0" to access ethernet0/0*

d) Type "ip address 192.168.1.1 255.255.255.0" to assign on IP address and subnet mask to the interface.
e) "no shutdown" to open interface up for business
f) Exit

```
Router>en
Router>enable
Router#conf
Router#configure
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#int g0/0
Router(config-if)#ip add
Router(config-if)#ip address 192.168.1.1 255.255.255.0
Router(config-if)#no shut
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to up

Router(config-if)#exit
```
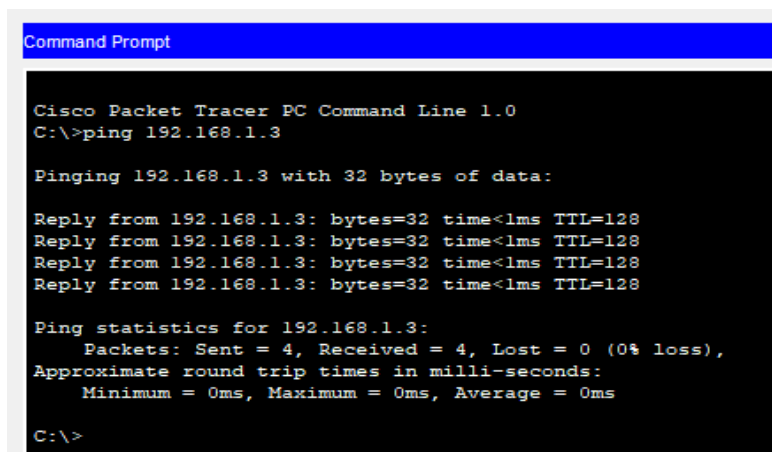
Step 3-

a) Select PC0 and then navigate to its Desktop and open the Command Prompt
b) To check the connectivity from PC0 to Laptop0, use the command 'ping 192.168.1.3

```
Command Prompt

Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.3

Pinging 192.168.1.3 with 32 bytes of data:

Reply from 192.168.1.3: bytes=32 time<1ms TTL=128
Reply from 192.168.1.3: bytes=32 time<1ms TTL=128
Reply from 192.168.1.3: bytes=32 time<1ms TTL=128
Reply from 192.168.1.3: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.1.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

Default gateway is the router interface0/0 ip add 255.255.255.0 is the subnet mask of the network

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