



## **Task no : 6**

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**Section = 5B**

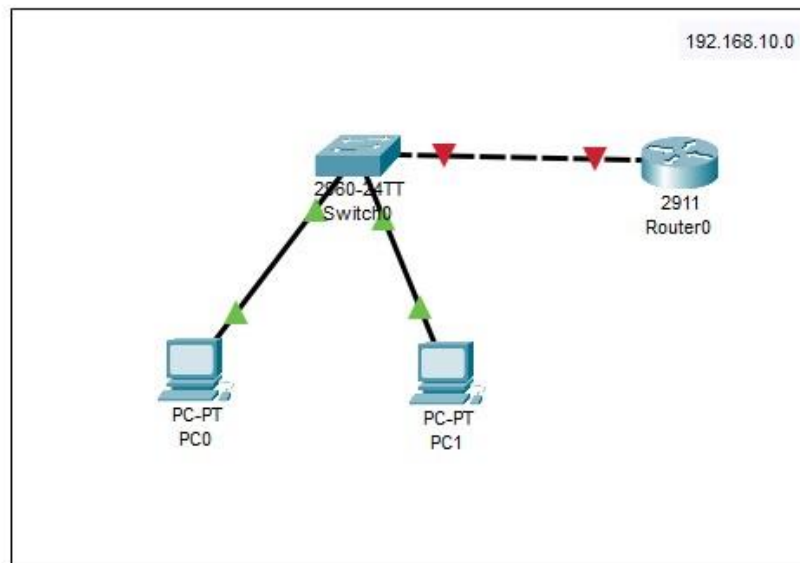
**Course = Computer Network**

**Date = 2-oct-2024**

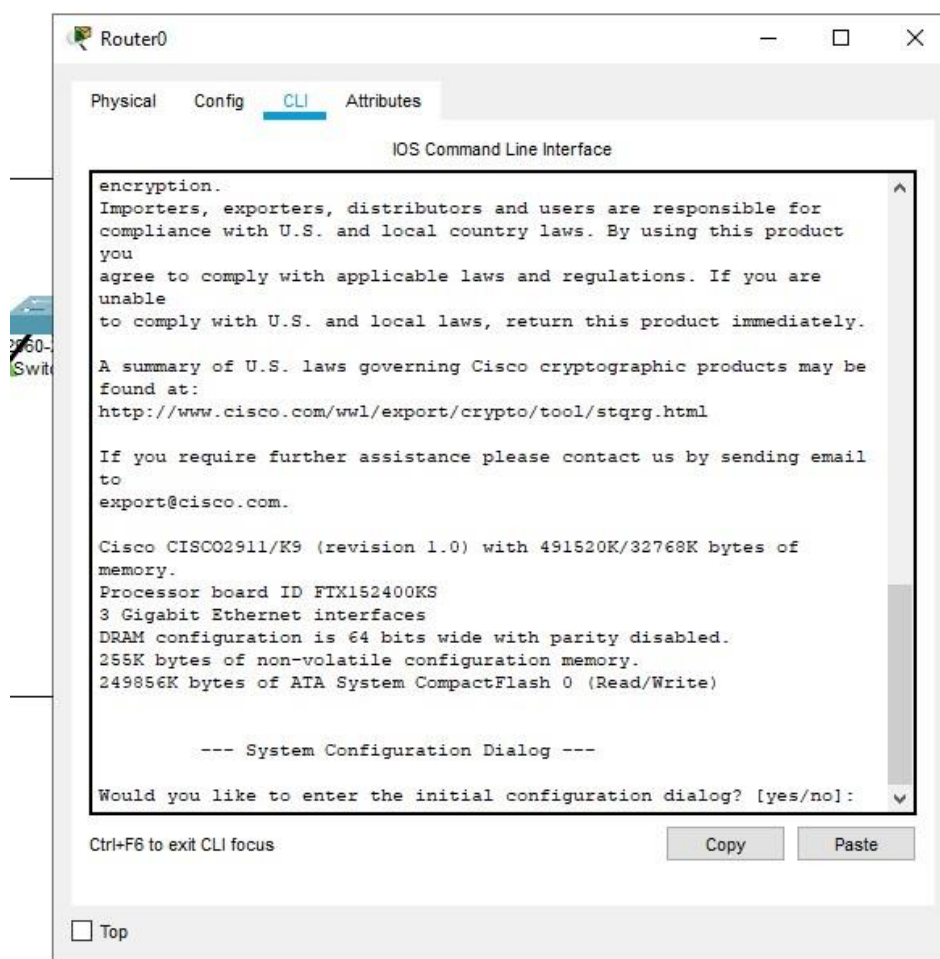
**Submitted by = Sir Rasikh Ali**

## Assigning IP Address to a Network (Statically, using Command)

1. Make a network similar to this and open the Router settings.



2. Open CLI



3. If it asks for "yes/no" type no and press **enter** twice.

```
--- System Configuration Dialog ---

Would you like to enter the initial configuration dialog? [yes/no]: no

Press RETURN to get started!

Router>|
```

4. When it says “**Router>**” type “**enable**” to change it to “**Router#**”

```
Router>enable
Router#
```

5. Next, type “**config**” or “**configure**” or “**configure terminal**” and press enter twice.

```
Router>enable
Router#config
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#
```

6. Now type the command “interface name”, like “**interface gig0/1**”, gig0/1 is the port of router which is connected to the network.

```
Router>enable
Router#config
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface gig0/1
Router(config-if)#
```

7. When it says “config-if” it means, it is in its “interface” now. Next command is to configure IP. Type: “ip address ipaddress subnetmask” like “**ip address 192.168.10.1 255.255.255.0**” for this network.

```
Router>enable
Router#config
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface gig0/1
Router(config-if)#ip address 192.168.10.1 255.255.255.0
Router(config-if)#
```

8. After this, to turn-on the port/service, type “**no shutdown**”, press **enter** and then type “**end**” and press **enter** to go back to initial “**Router#**”

```
Router>enable
Router#config
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface gig0/1
Router(config-if)#ip address 192.168.10.1 255.255.255.0
Router(config-if)#no shutdown


Router(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1,
changed state to up

Router(config-if)#end
Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#
```

9. Close the Router settings, and hover over the router to double check if the IP is configured or not.



Port	Link	VLAN	IP Address
GigabitEthernet0/0	Down	--	<not set>
GigabitEthernet0/1	Up	--	192.168.10.1/24
GigabitEthernet0/2	Down	--	<not set>
Vlan1	Down	1	<not set>

Hostname: Router

Physical Location: Intercity, Home City, Corporate Of

10. Now, statically configure IP addresses from this Network, like we did in “Lab-3” and afterwards hover over the PCs to check if the IP is configured or not




Port	Link	IP Address
FastEthernet0	Up	192.168.10.3/24
Bluetooth	Down	<not set>

11. Open any of the PC setting and go to “Command Prompt”, type “ping IP\_Address\_of\_other\_Pc” like “**ping 192.168.10.3**” to check if there’s communicating between two PCs

```
Packet Tracer PC Command Line 1.0
C:\>ping 192.168.10.3

Pinging 192.168.10.3 with 32 bytes of data:

Reply from 192.168.10.3: bytes=32 time=1ms TTL=128
Reply from 192.168.10.3: bytes=32 time=4ms TTL=128
Reply from 192.168.10.3: bytes=32 time<1ms TTL=128
Reply from 192.168.10.3: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.10.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 4ms, Average = 1ms

C:\>
```

12. Similarly, type “telnet IP\_Address\_of\_Router” like “**telnet 192.168.10.1**” to check the connection with router.

```
C:\>telnet 192.168.10.1
Trying 192.168.10.1 ...Open
```

## Lab 6 - Task

### Task 1;

Design network of "Lab-7" or “Lab-8” (2-3 rows of computers) Use:

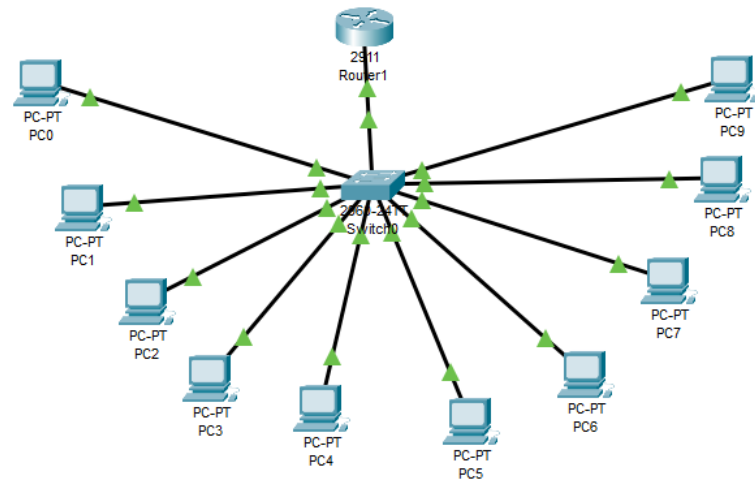
- Switch (1)
- Router (1)

- End-Devices like Laptop/PC

Assign IP Address (167.158.15.0) using Command for Router. And Statically for End-Devices

**Answer :**

---



Physical Config CLI Attributes

IOS Command Line Interface

```
--- System Configuration Dialog ---

Would you like to enter the initial configuration dialog? [yes/no]:
no

Press RETURN to get started!

Router>en
Router#config terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#int gig0/1
Router(config-if)#ip address 167.138.15.0 255.255.0.0
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1,
changed state to up
exit
Router(config)#
```

Ctrl+F6 to exit CLI focus

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