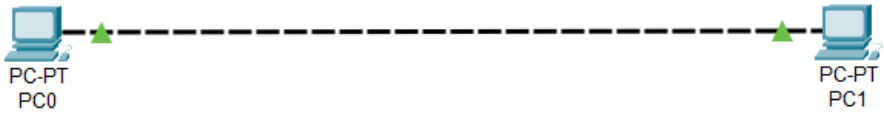
Name: - Shreyash Dwivedi

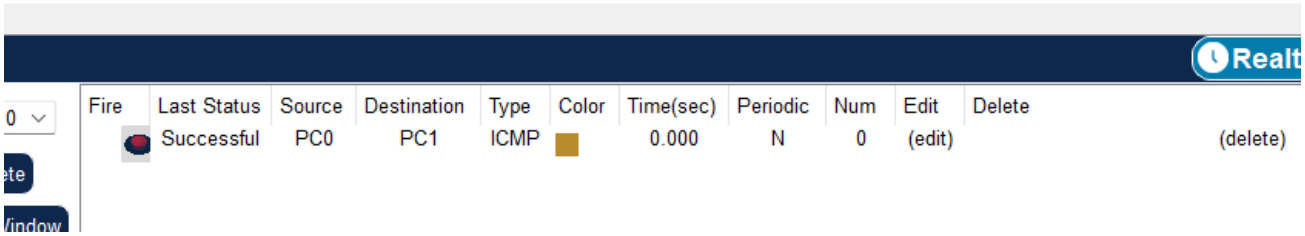
Course: - B.Sc. (H) Computer Science

Roll No.: - 20221437

Practical Networking: -

Q2. To study and perform PC to PC communication.

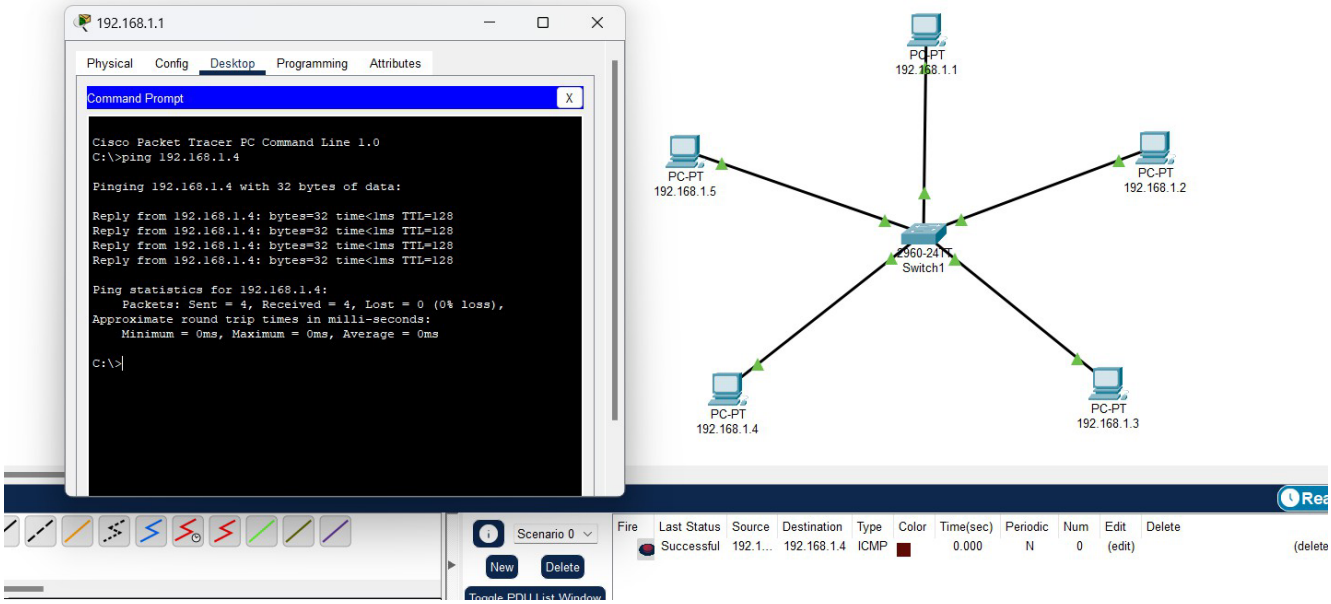




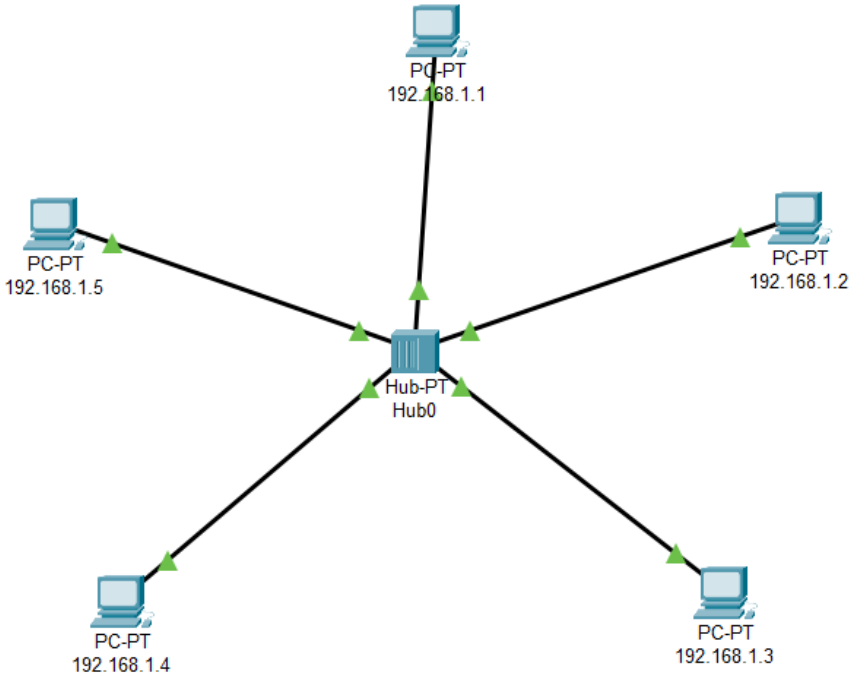
Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	PC0	PC1	ICMP		0.000	N	0	(edit)	(delete)

Q3. To create Star topology using Hub and Switch.

(i) Using Switch



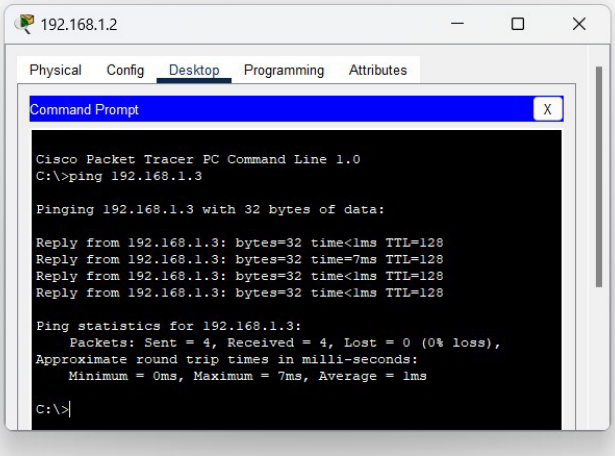
(ii) using Hub

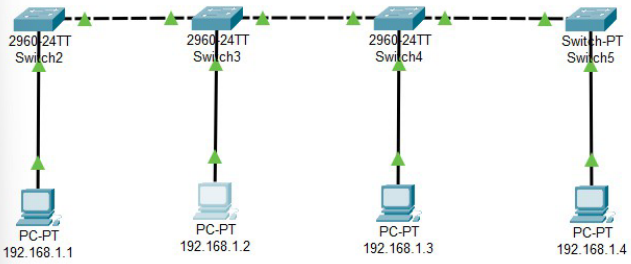


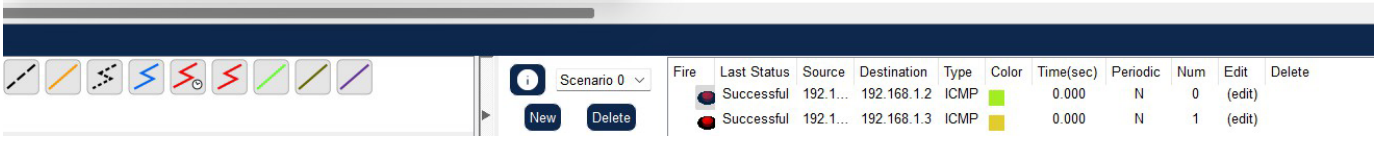
Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	192.1...	192.168.1.4	ICMP		0.000	N	0	(edit)	
	Successful	192.1...	192.168.1.4	ICMP		0.000	N	1	(edit)	

Q4. To create Bus, Ring, Tree, Hybrid, Mash topologies.

(i) Bus Topology

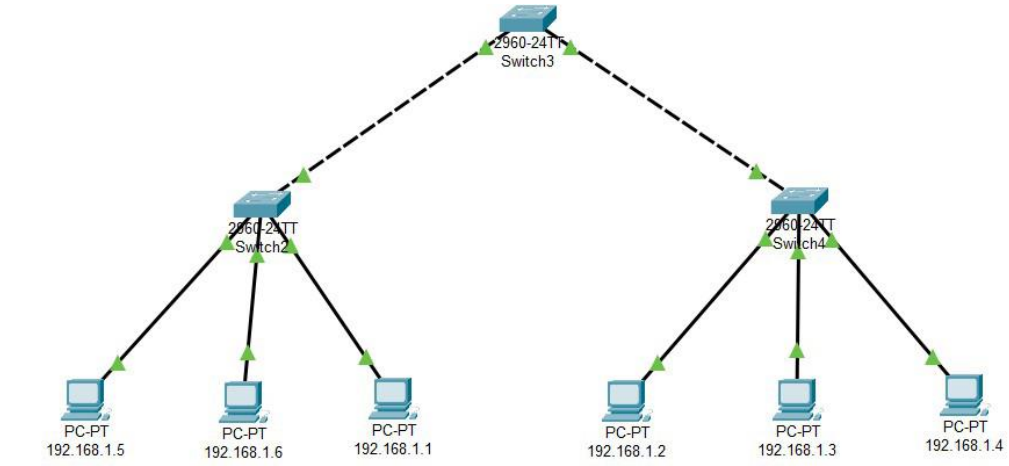


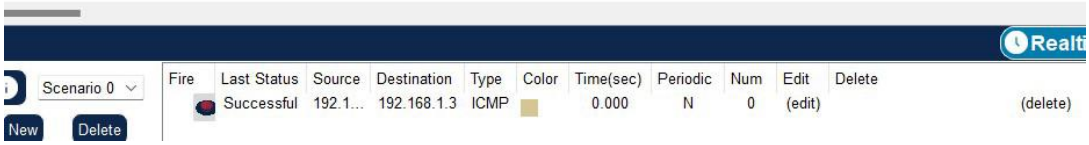




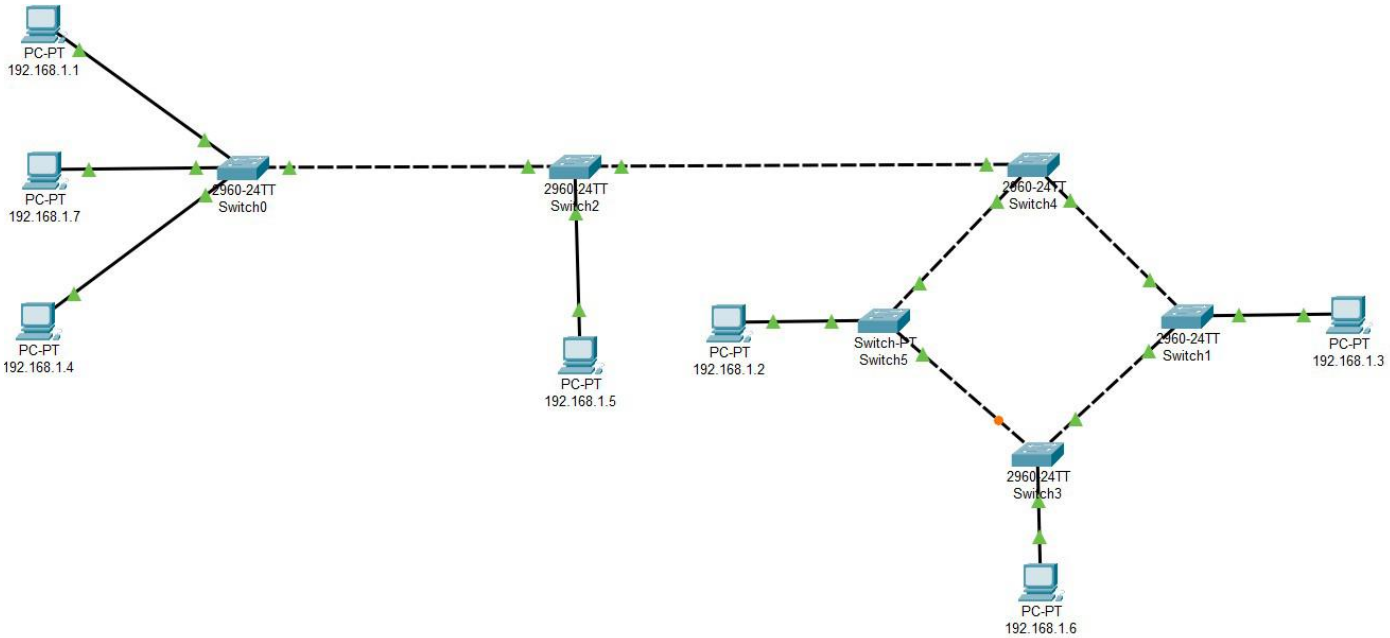
Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	192.1...	192.168.1.2	ICMP		0.000	N	0	(edit)	
	Successful	192.1...	192.168.1.3	ICMP		0.000	N	1	(edit)	

(ii) Tree Topology

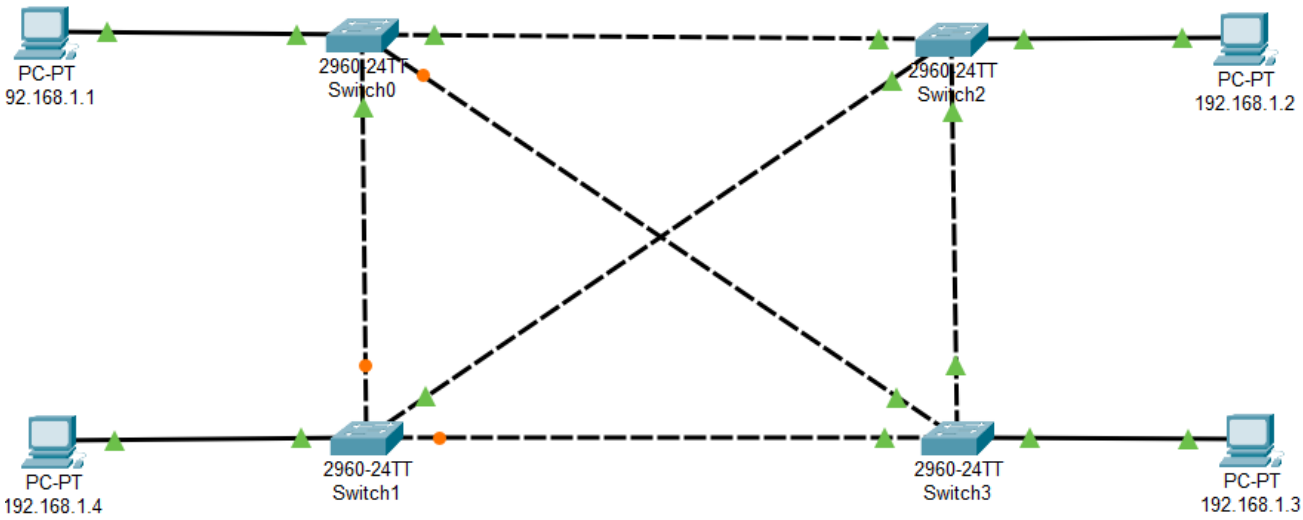


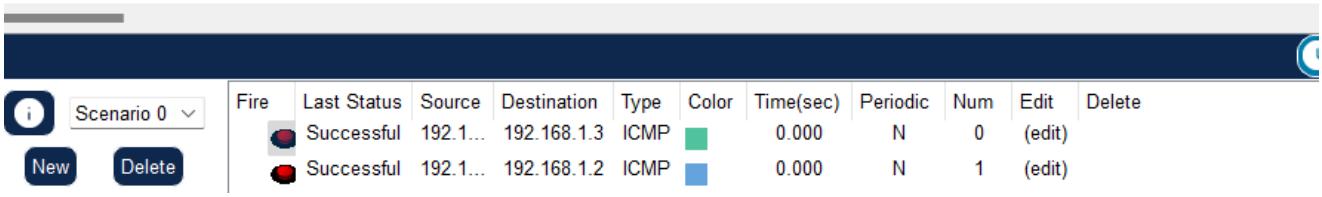


(iii) Hybrid Topology



(iv) Mash Topology





Q5. Perform an initial Switch configuration.

- Name

```
Switch>enable
Switch#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Switch(config)#hostname myswitch
myswitch(config)#exit
myswitch#
%SYS-5-CONFIG_I: Configured from console by console

myswitch#
```

- password

```
myswitch>enable
myswitch#configur terminal
Enter configuration commands, one per line.  End with CNTL/Z.
myswitch(config)#enable password myl23
myswitch(config)#exit
```

Host Setting

```
Router(config-if)#hostname Mahesh
Mahesh(config)#enable secret MaheshShah
Mahesh(config)#enable password Mahesh123
Mahesh(config)#
```

Set a message of the day (MOTD) banner for the users.

```
Mahesh(config)#
Mahesh(config)#banner motd $
Enter TEXT message.  End with the character '$'.
My name is Mahesh Shah
$
```

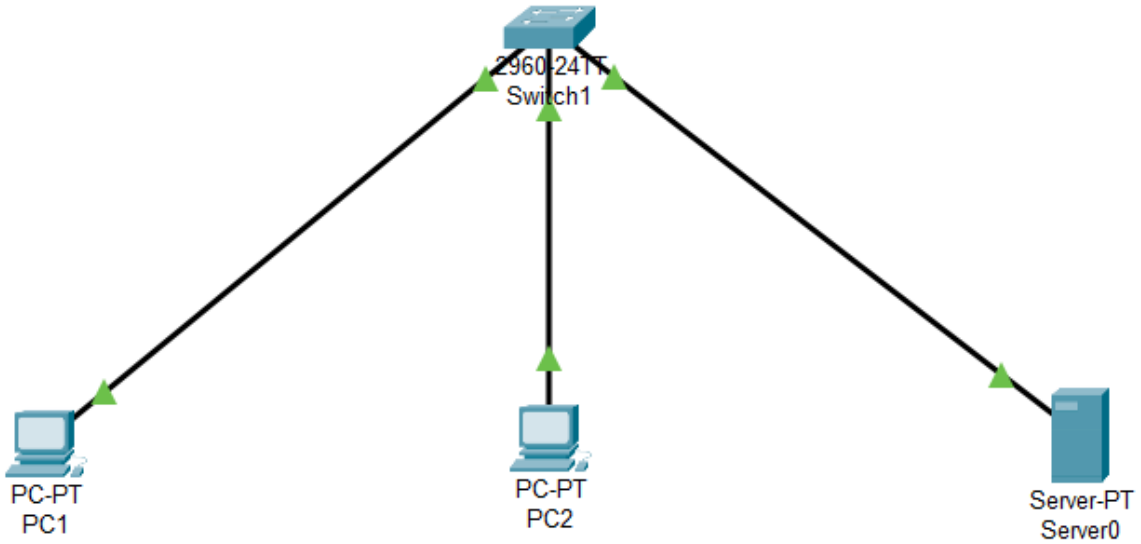
To configure the Line Control password

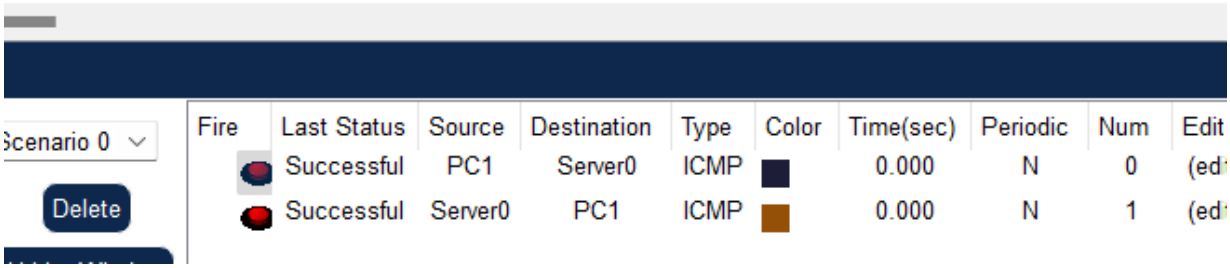
```
Mahesh(config-line)#line con 0
Mahesh(config-line)#password mahesh123
Mahesh(config-line)#login
Mahesh(config-line)#exit
Mahesh(config)#
```

Enable secret follow the below commands:

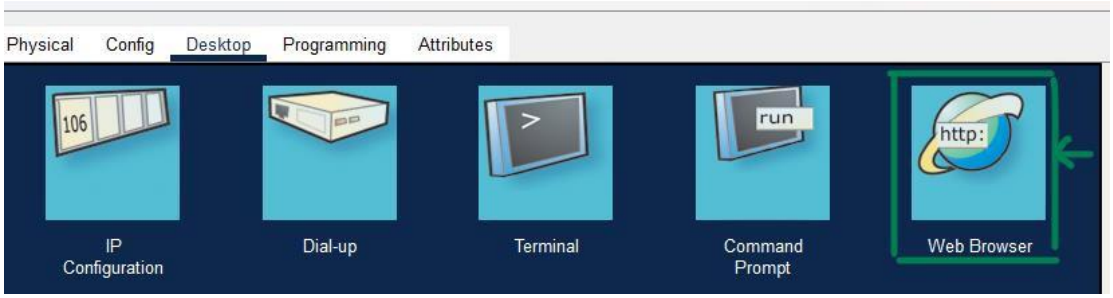
```
Mahesh(config)#line con 0
Mahesh(config-line)#enable password cisco
Mahesh(config)#enable secret mahl23
Mahesh(config)#service password-encryption
Mahesh(config)#exit
Mahesh#
%SYS-5-CONFIG_I: Configured from console by console
```

Q7. To implement Client-server Network.

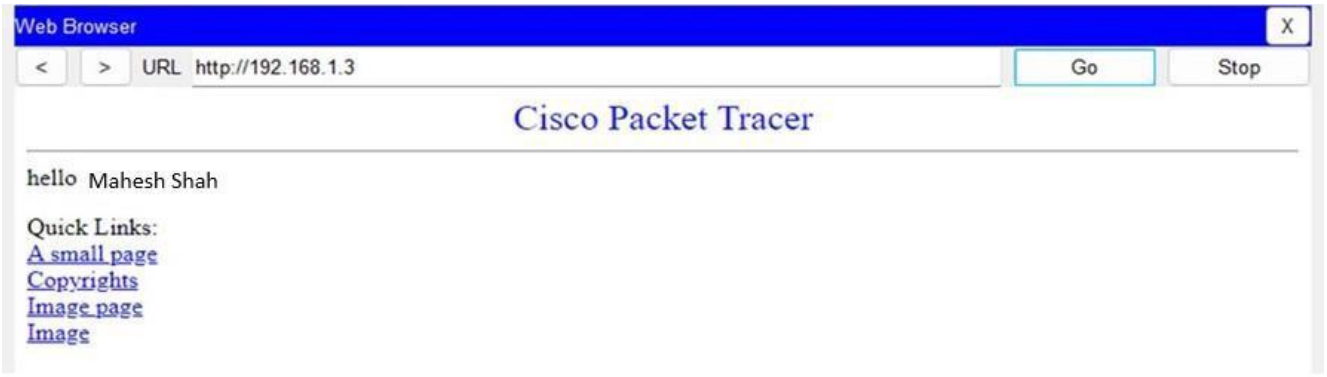




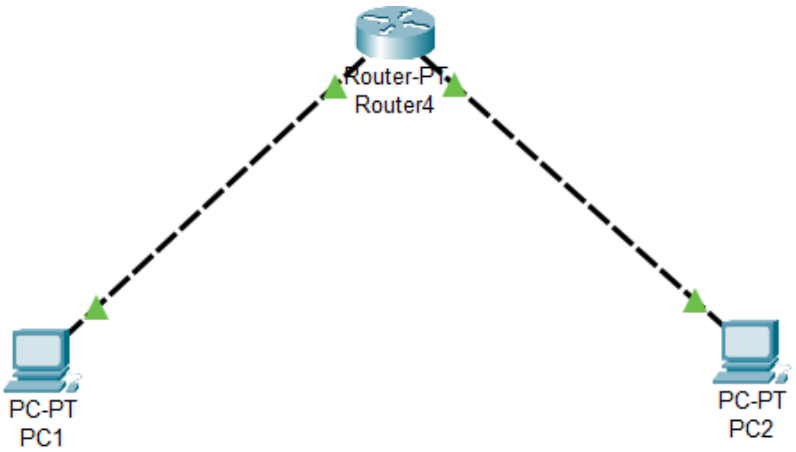
- Step 1. In any pc go to web server.



-> Step 2. Enter IP address of server connected to your switch in web server URL. Then press GO.

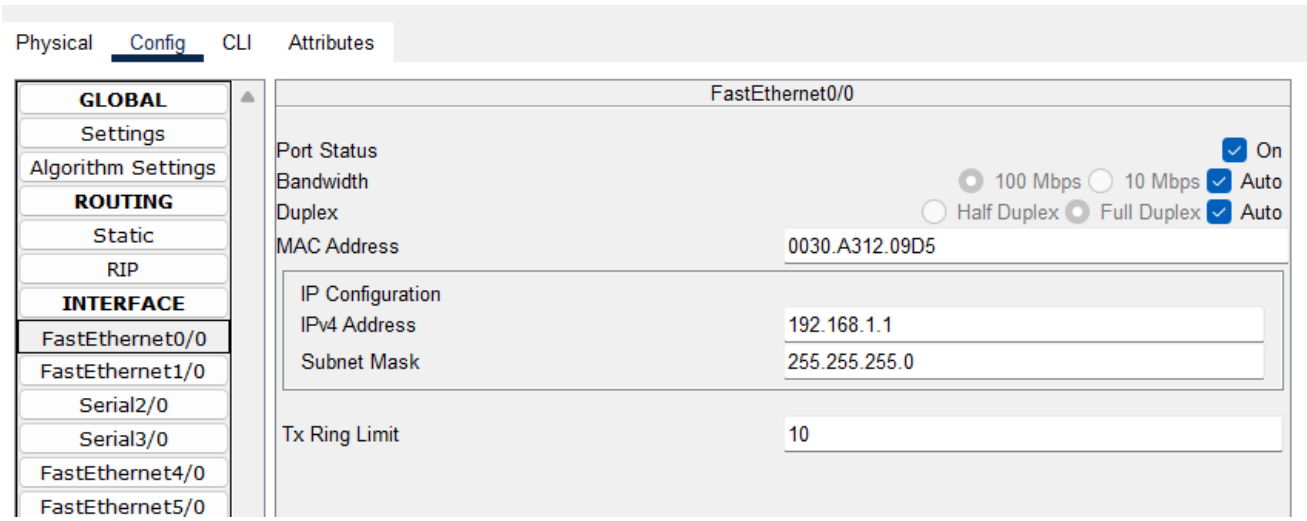


Q8. To implement connection between devices using router.



Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	PC1	Router4	ICMP		0.000	N	0	(edit)	
	Successful	PC2	Router4	ICMP		0.000	N	1	(edit)	
	Successful	PC1	PC2	ICMP		0.000	N	2	(edit)	

- Router Config


Physical
Config
CLI
Attributes
GLOBAL
Settings
Algorithm Settings
ROUTING
Static
RIP
INTERFACE
FastEthernet0/0
FastEthernet1/0
Serial2/0
Serial3/0
FastEthernet4/0
FastEthernet5/0
FastEthernet0/0
Port Status
On
Bandwidth
100 Mbps
10 Mbps
Auto
Duplex
Half Duplex
Full Duplex
Auto
MAC Address
0030.A312.09D5
IP Configuration
IPv4 Address
192.168.1.1
Subnet Mask
255.255.255.0
Tx Ring Limit
10