

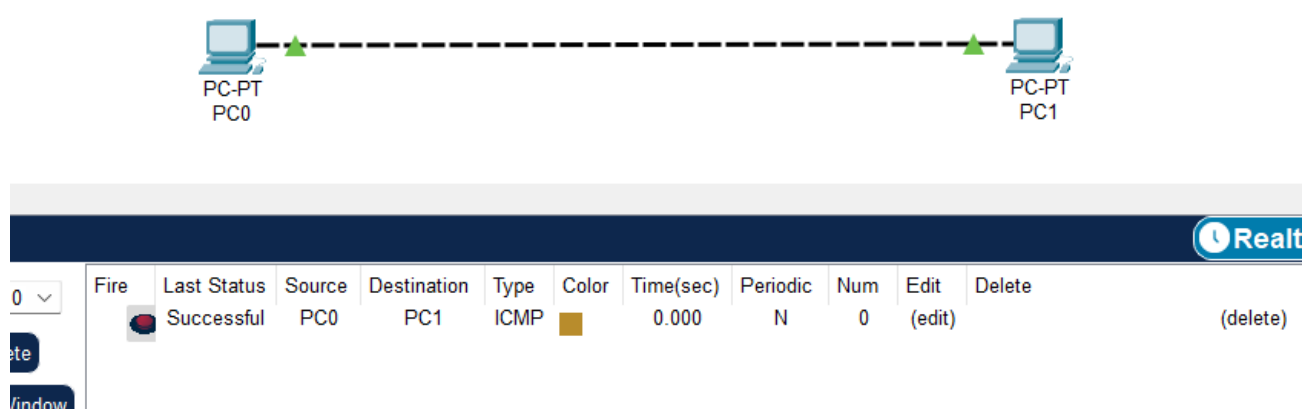
Name: - Mahesh Shah

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

Roll No.: - 2022127

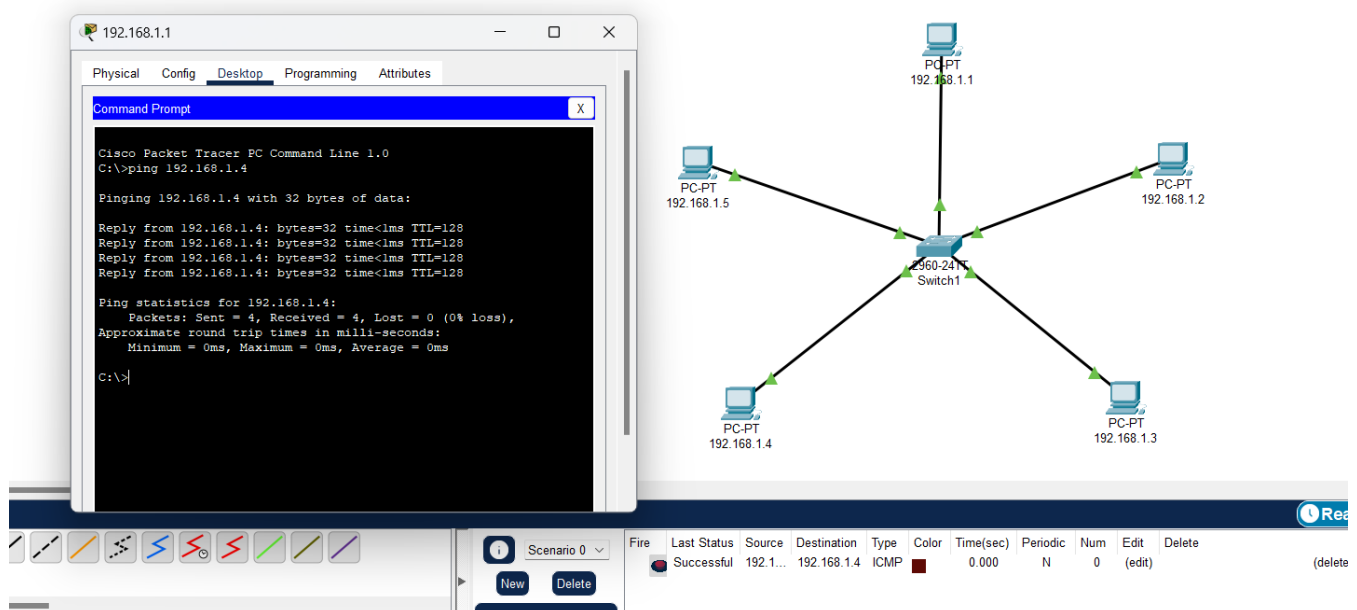
Practical Networking: -

Q2. To study and perform PC to PC communication.

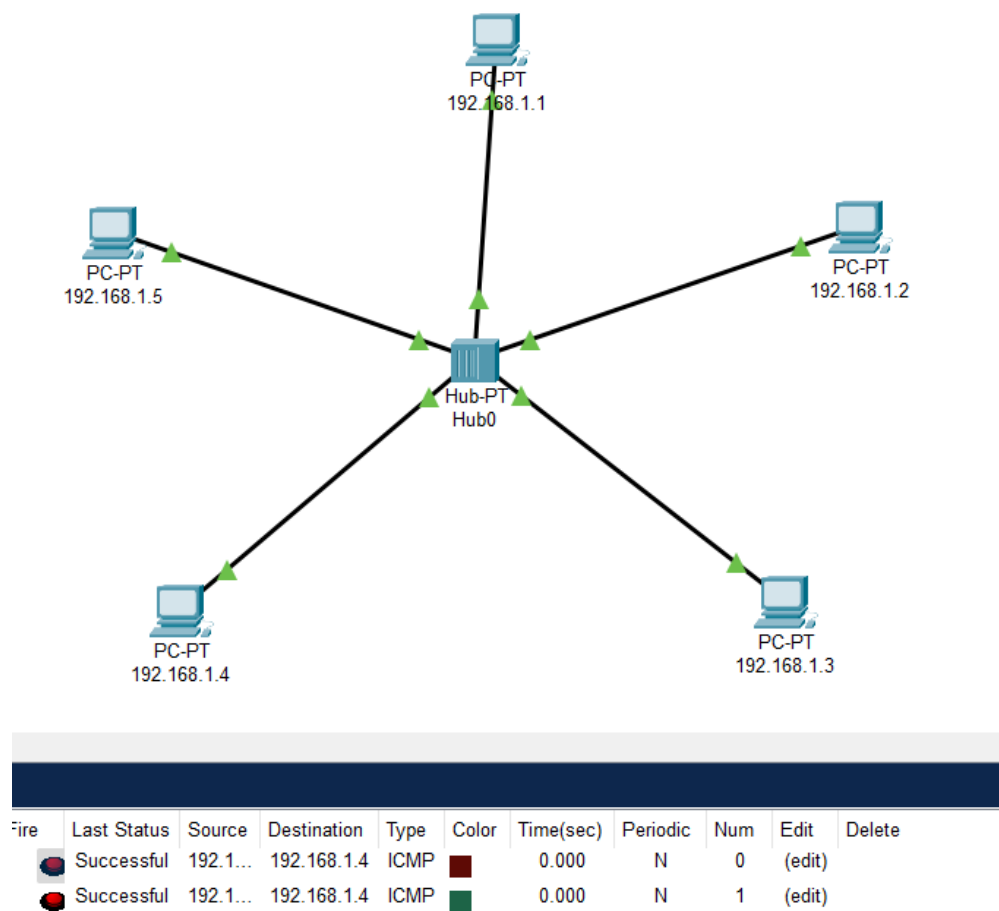


Q3. To create Star topology using Hub and Switch.

(i) Using Switch

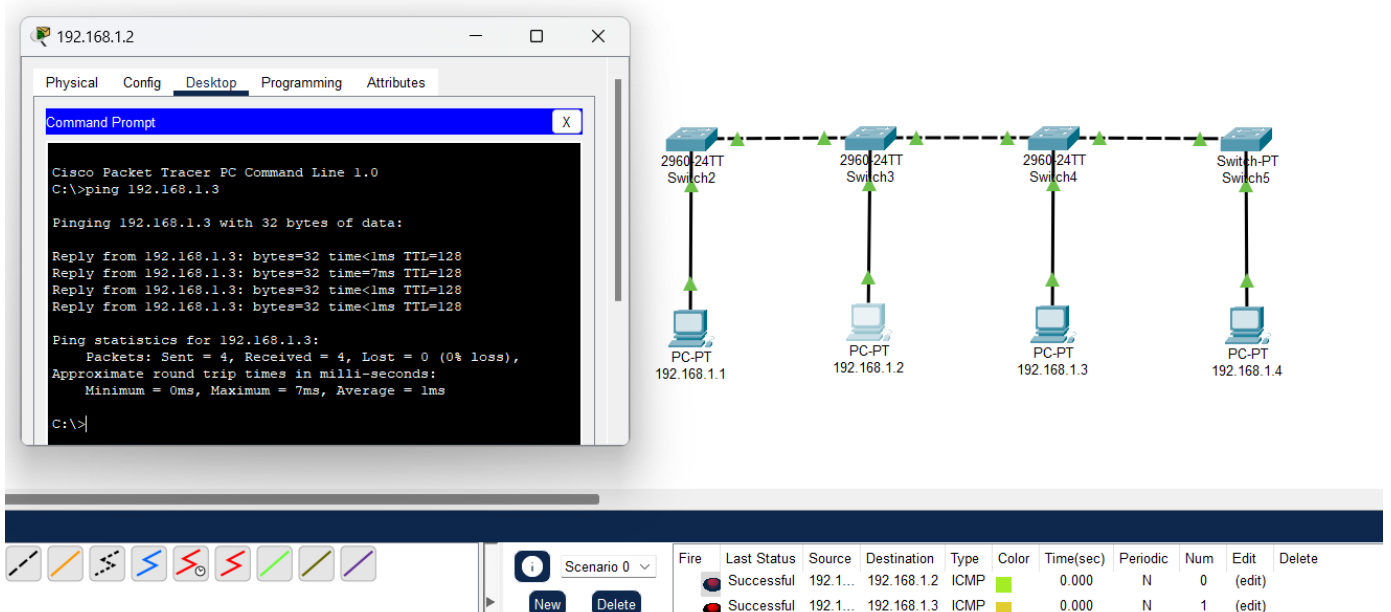


(ii) using Hub

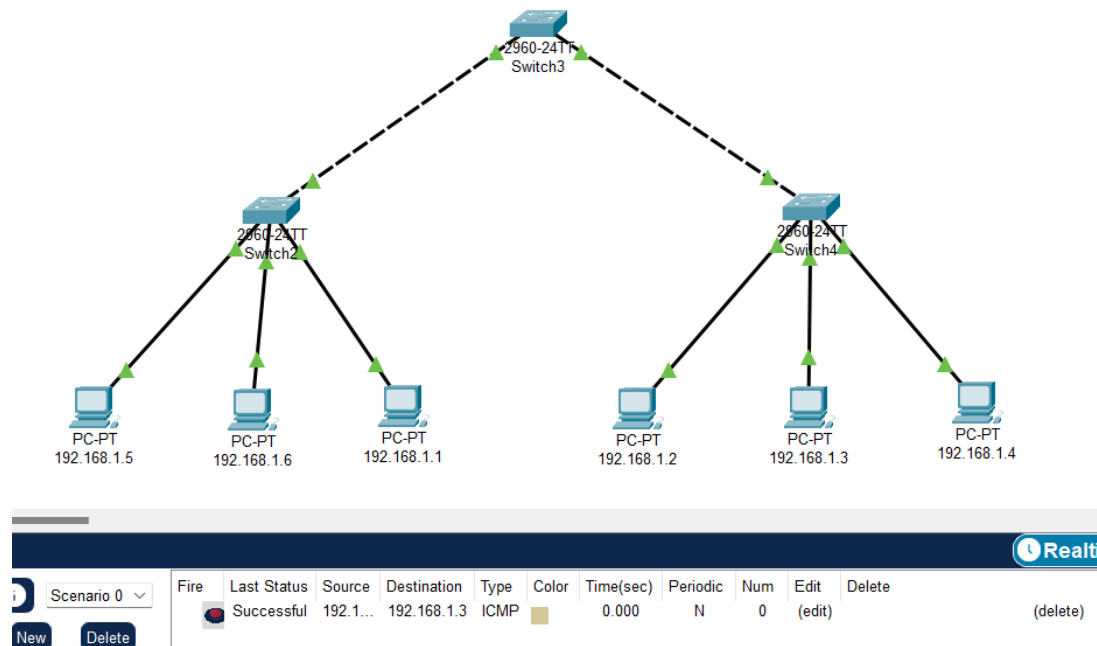


Q4. To create Bus, Ring, Tree, Hybrid, Mash topologies.

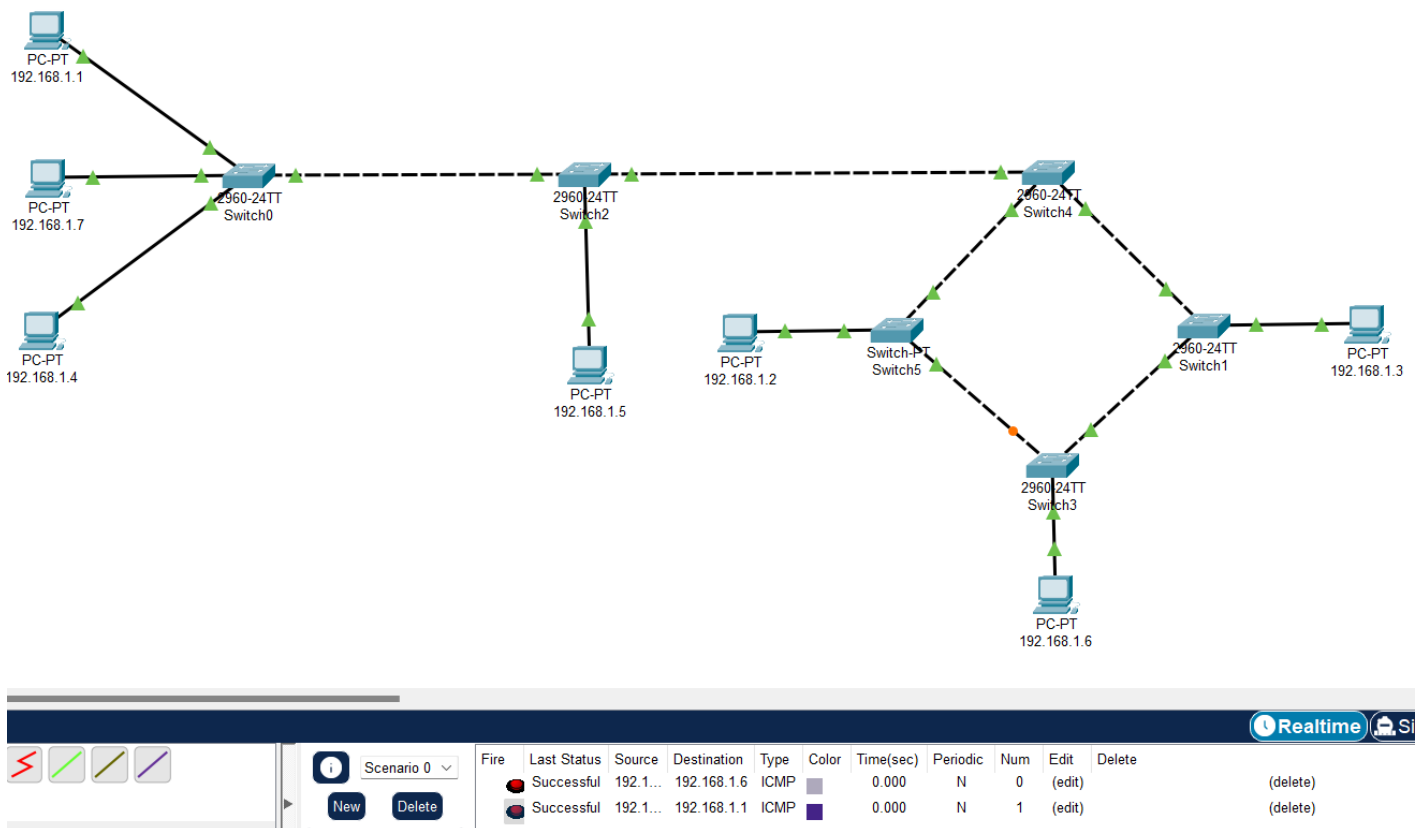
(i) Bus Topology



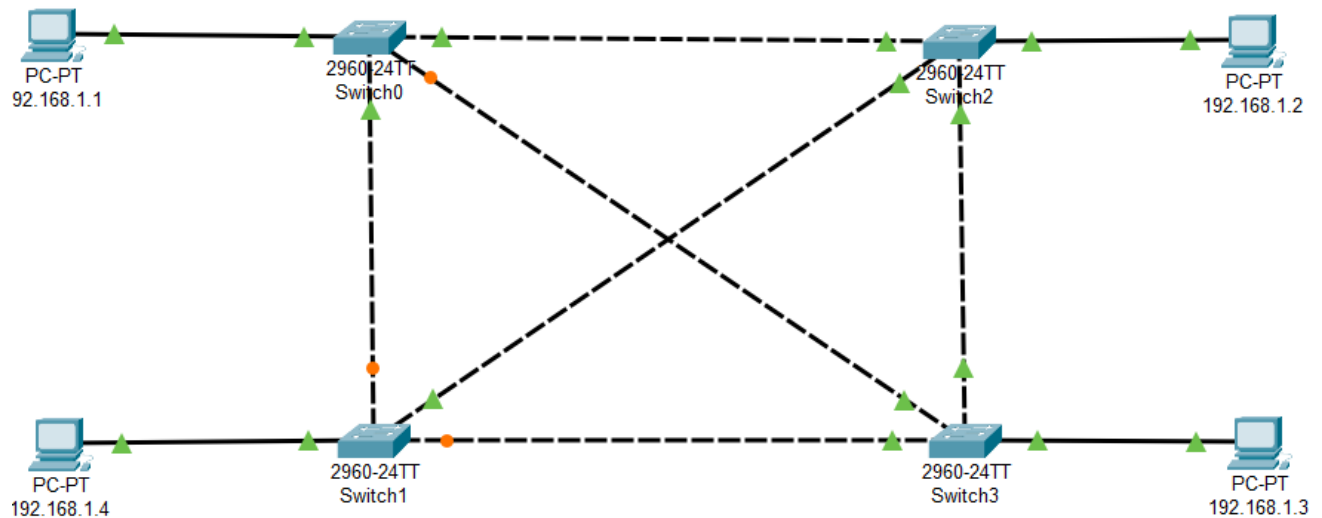
## (ii) Tree Topology



## (iii) Hybrid Topology







#### (iv) Mash Topology



Scenario 0

New

Delete

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

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
```

Q6. Perform an initial Router configuration.

## Host Setting

```
Router(config-if)#hostname Mahesh
Mahesh(config)#enable secret MaheshShah
Mahesh(config)#enable password Maheshl23
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
$
```

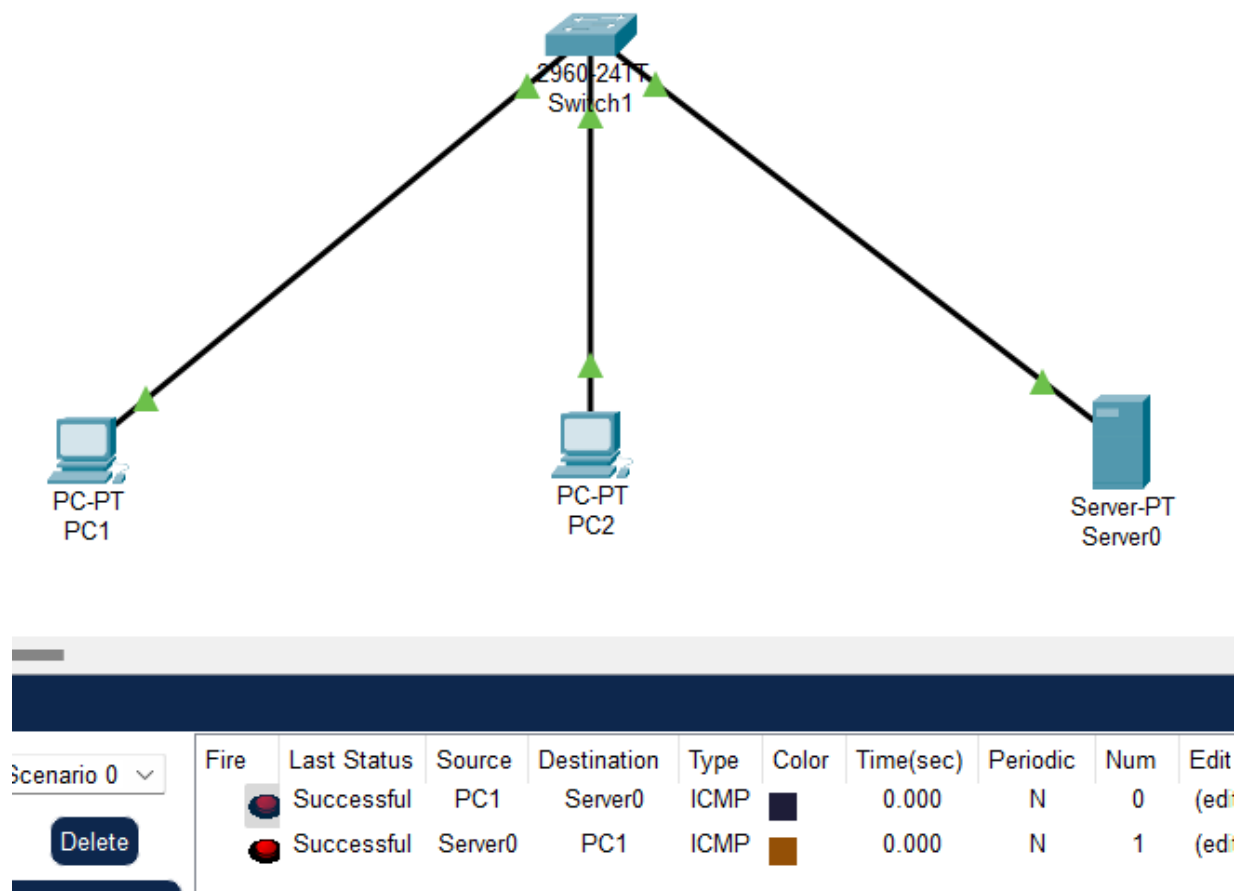
To configure the Line Control password

```
Mahesh(config-line)#line con 0
Mahesh(config-line)#password maheshl23
Mahesh(config-line)#login
Mahesh(config-line)#exit
Mahesh(config)#
```

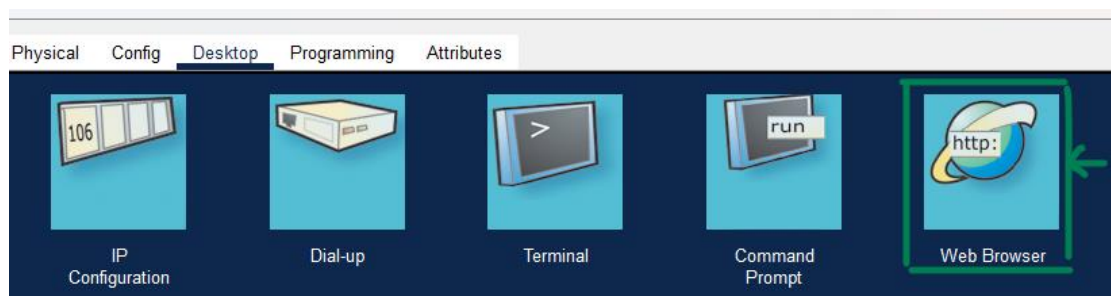
Enable secret follow the below commands:

```
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
```

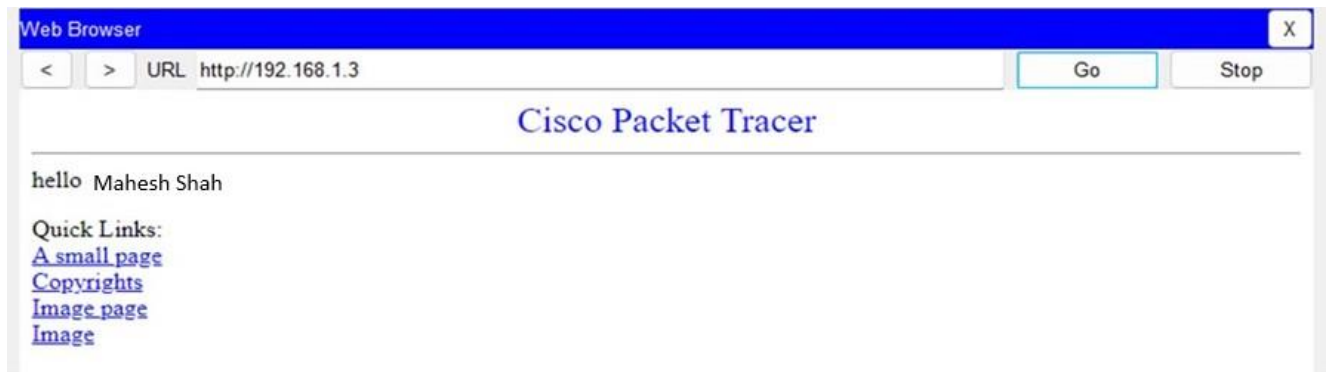
Q7. To implement Client-server Network.



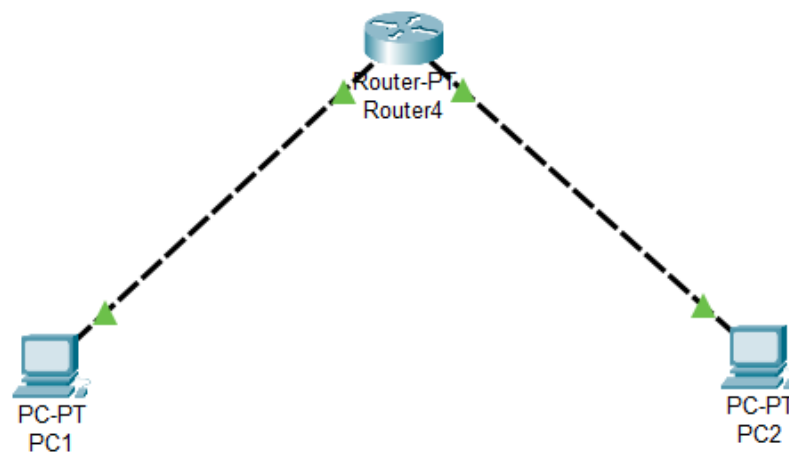
➔ Step 1. In any pc go to web server.



-> 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

<b>GLOBAL</b>	FastEthernet0/0	
Settings		
Algorithm Settings		
<b>ROUTING</b>		
Static		
RIP		
<b>INTERFACE</b>		
FastEthernet0/0		
FastEthernet1/0		
Serial2/0		
Serial3/0		
FastEthernet4/0		
FastEthernet5/0		

Port Status	<input checked="" type="checkbox"/> On
Bandwidth	<input checked="" type="radio"/> 100 Mbps <input type="radio"/> 10 Mbps <input checked="" type="checkbox"/> Auto
Duplex	<input type="radio"/> Half Duplex <input checked="" type="radio"/> Full Duplex <input checked="" type="checkbox"/> Auto
MAC Address	0030.A312.09D5
IP Configuration	
IPv4 Address	192.168.1.1
Subnet Mask	255.255.255.0
Tx Ring Limit	10