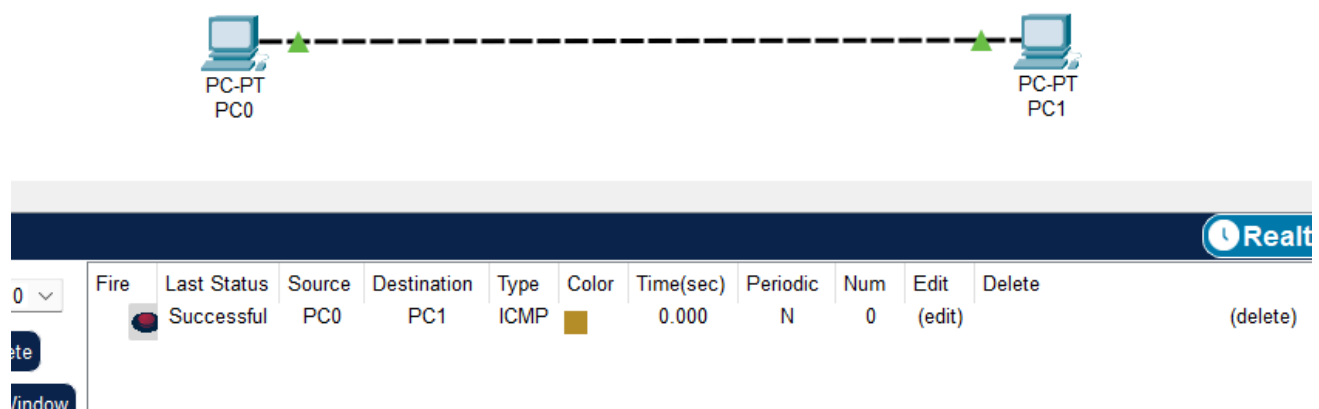Name: - Aman

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

Roll No.: - 20221406
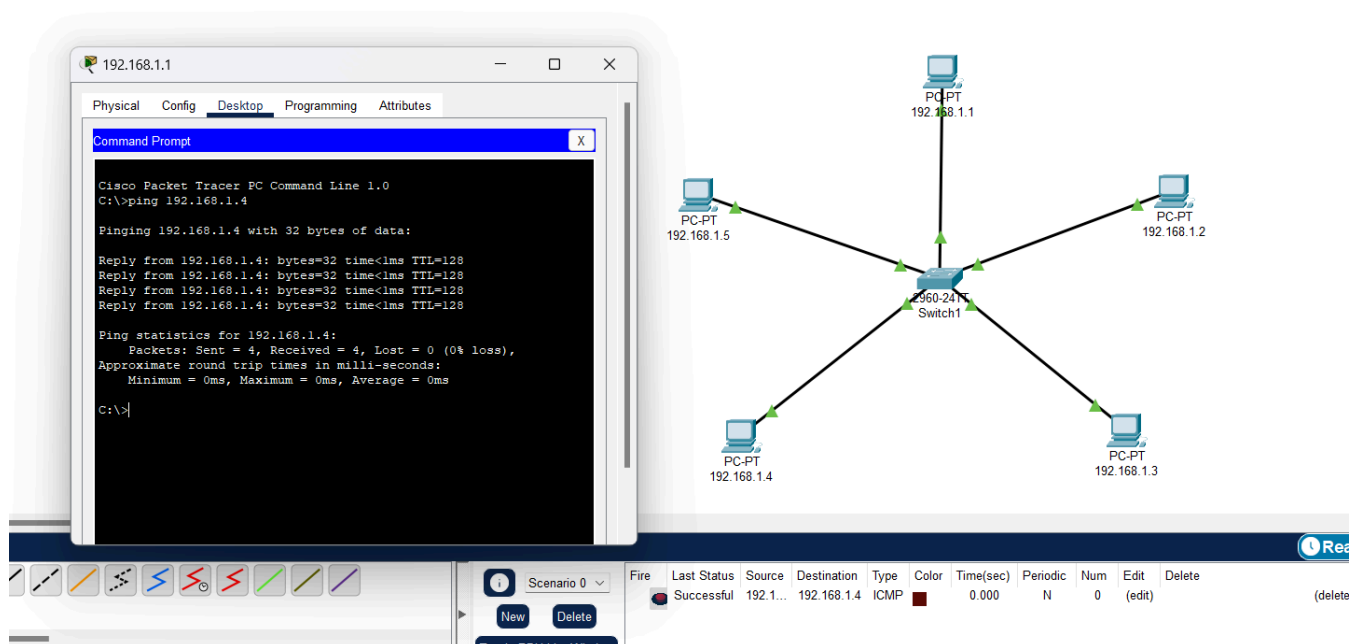
Practical   Networking: -

Q2. To study and perform PC to PC communication.
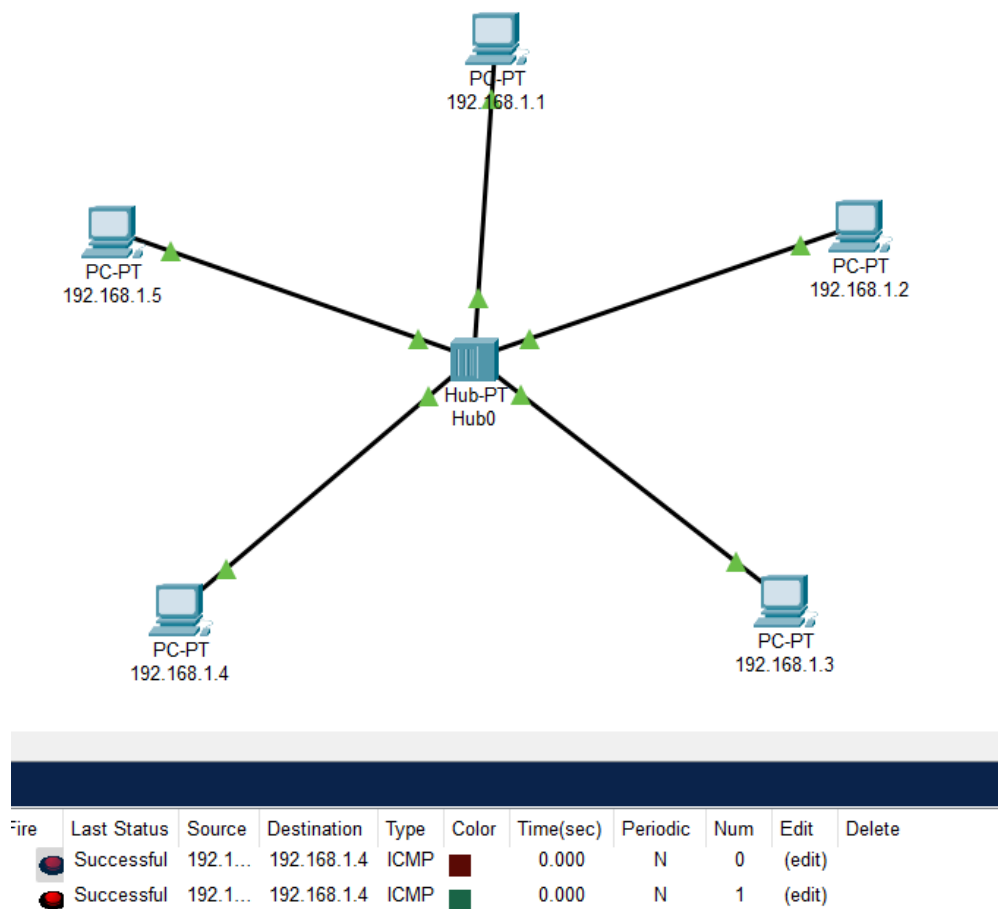

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete	
	Successful	PC0	PC1	ICMP		0.000	N	0	(edit)		(delete)

Q3. To create Star topology using Hub and Switch.

(i) Using Switch

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)		(delete)

(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)	

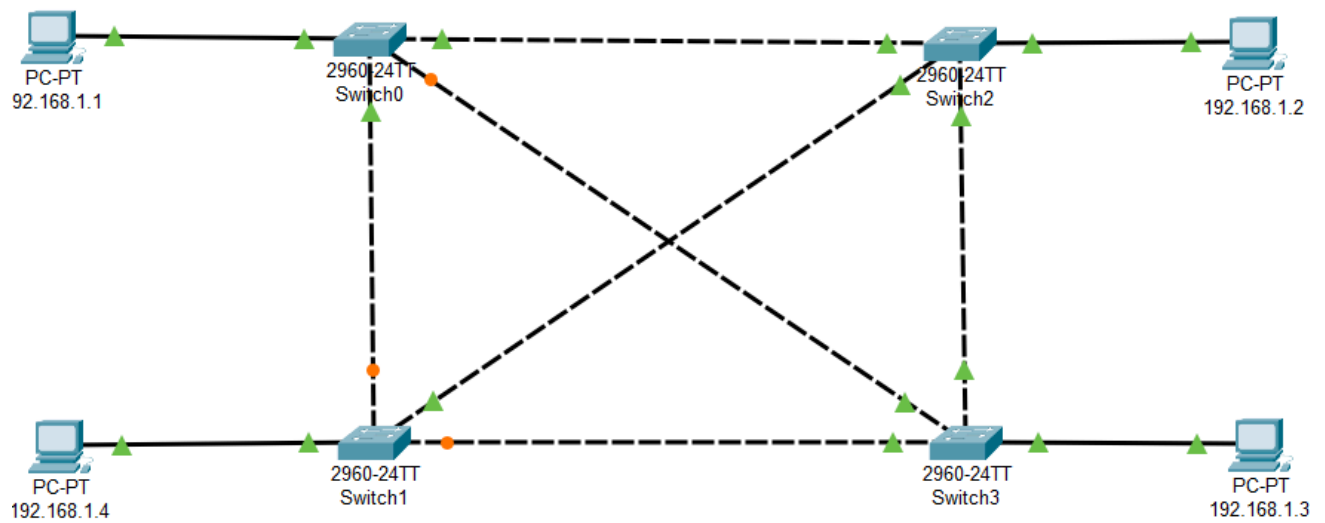## Q4. To create Bus, Ring, Tree, Hybrid, Mash topologies.
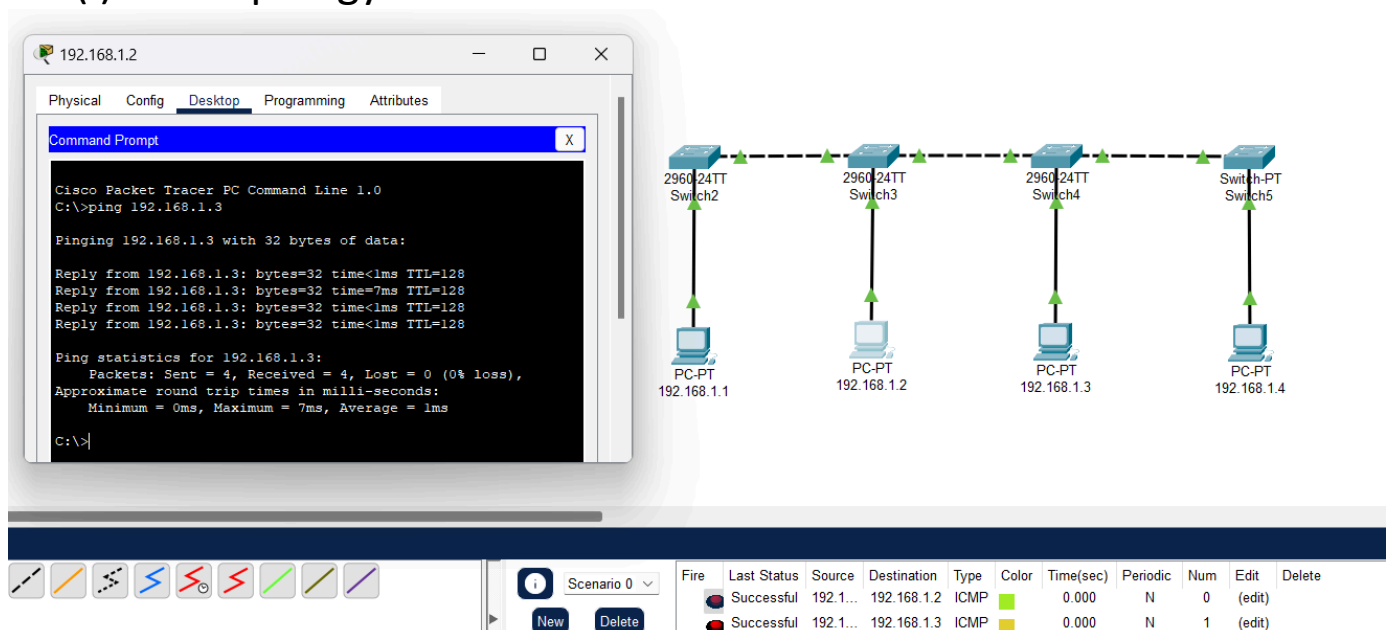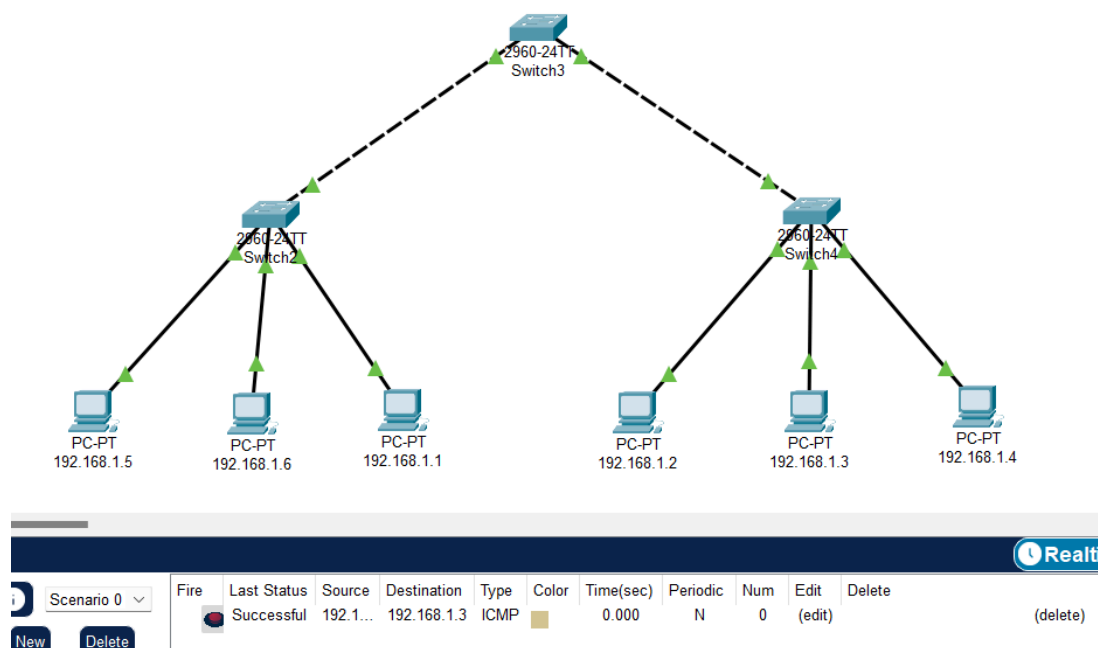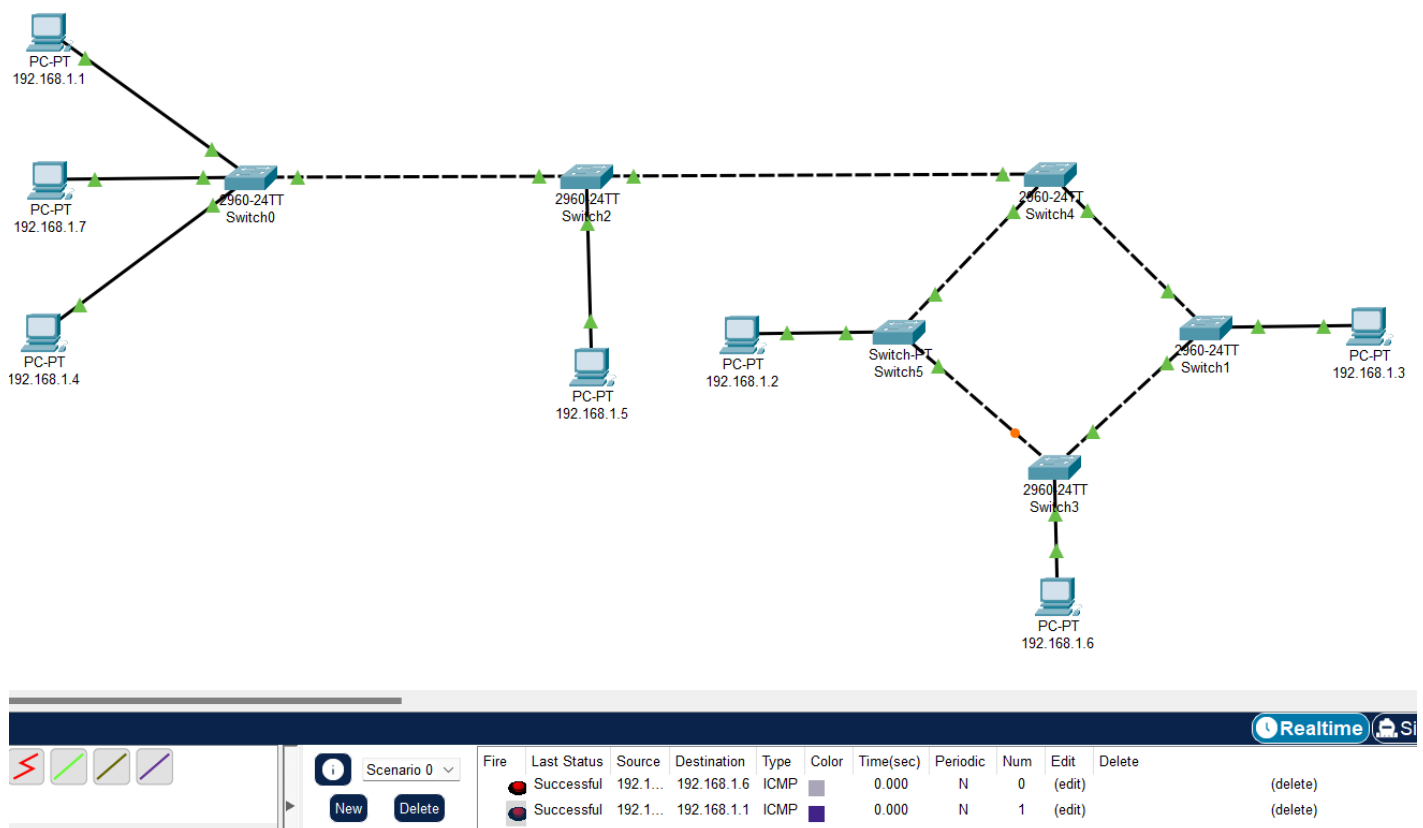
(i) Bus Topology

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

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

(iii) Hybrid Topology

	Scenario 0 ∨	Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete	
	New	Delete	Successful	192.1...	192.168.1.6	ICMP		0.000	N	0	(edit)		(delete)
			Successful	192.1...	192.168.1.1	ICMP		0.000	N	1	(edit)		(delete)

(iv) Mash Topology

PC-PT
92.168.1.1

2960 24TT
Switch0

2960 24TT
Switch2

PC-PT
192.168.1.2

PC-PT
192.168.1.4

2960-24TT
Switch1

2960-24TT
Switch3

PC-PT
192.168.1.3

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)	

Scenario 0 ∨

New   Delete

Q5. Perform an initial Switch configuration.

PC-PT
PC0

2960-24TT
Switch0

 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 my123
myswitch(config)#exit
```

Q6. Perform an initial Router configuration.

  ◻ Host Setting

```
Router>enable
Router#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#hostname AmrendraRouter
AmrendraRouter(config)#enable password am123
AmrendraRouter(config)#enable secret amrendra123
```

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

```
AmrendraRouter(config)#
AmrendraRouter(config)#banner motd $
Enter TEXT message.  End with the character '$'.
My name Is Amrendra Dalai
$
```

  ◻ To configure the Line Control password

```
AmrendraRouter(config)#line con 0
AmrendraRouter(config-line)#password amrendra123
AmrendraRouter(config-line)#login
AmrendraRouter(config-line)#exit
AmrendraRouter(config)#
```

 Enable secret follow the below commands:

```
AmrendraRouter(config)#line con 0
AmrendraRouter(config-line)#enable password cisco
AmrendraRouter(config)#enable secret am123
AmrendraRouter(config)#service password-encryption
AmrendraRouter(config)#exit
AmrendraRouter#
%SYS-5-CONFIG_I: Configured from console by console
```

Q7. To implement Client-server Network.
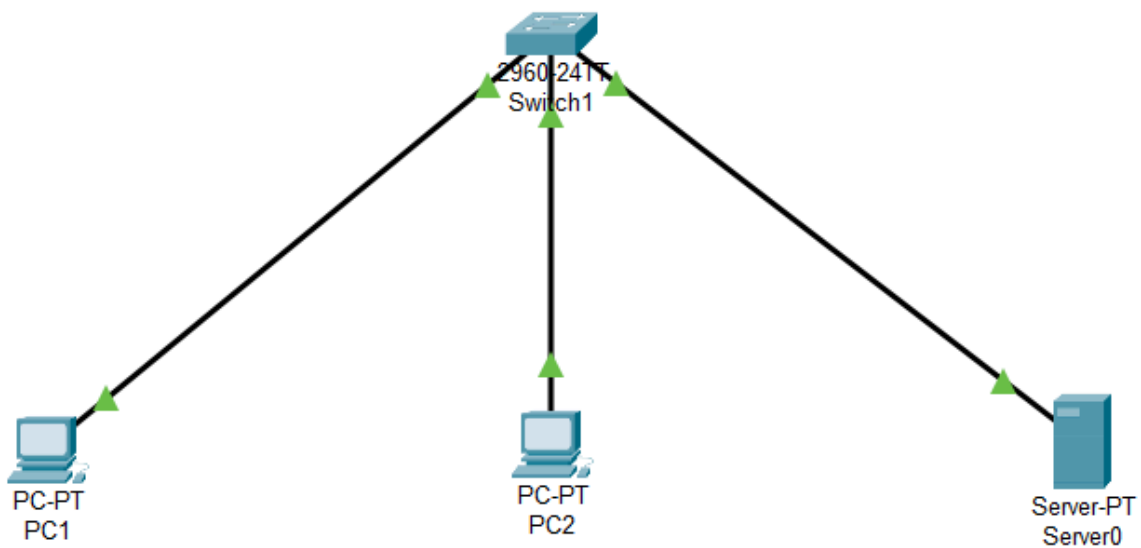
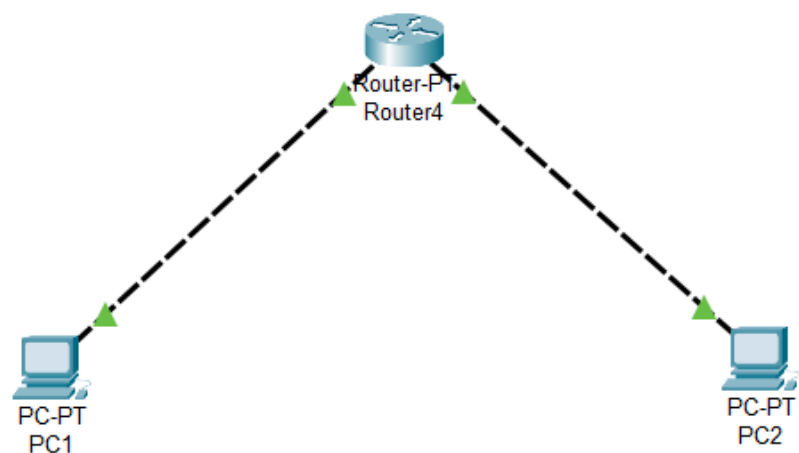|	Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit
Scenario 0 ⌄	●	Successful	PC1	Server0	ICMP	■	0.000	N	0	(ed
Delete	●	Successful	Server0	PC1	ICMP	■	0.000	N	1	(ed

 Step 1. In any pc go to web server.
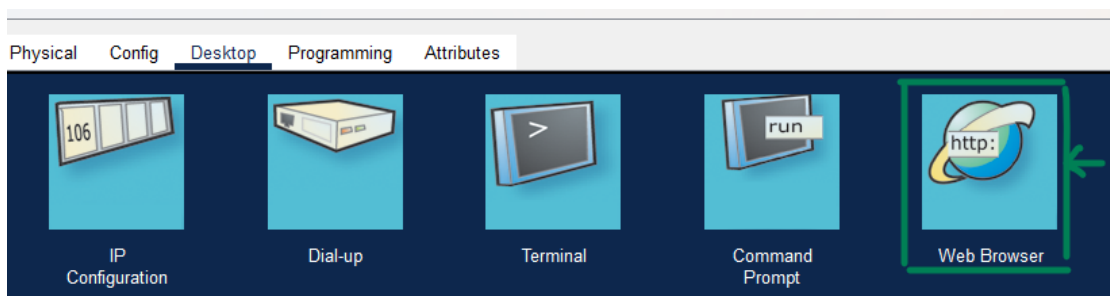
-> Step 2. Enter IP address of server connected to your switch in web server URL. Then press GO.
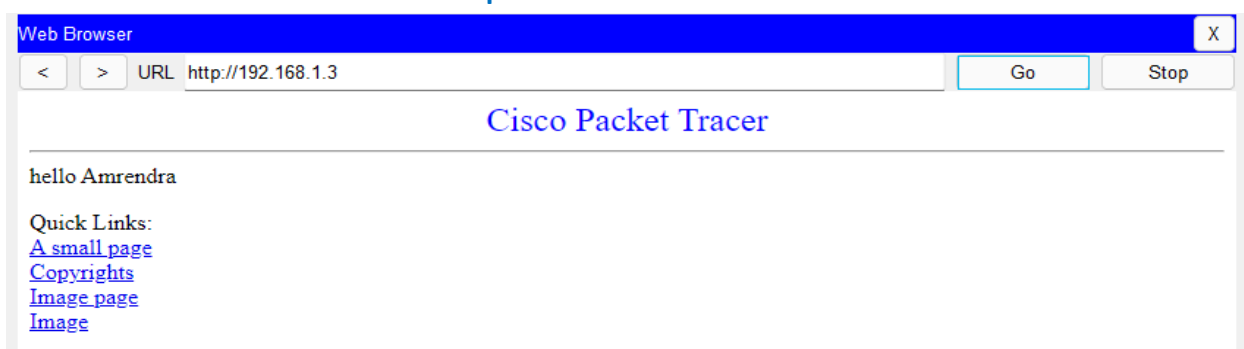
Q8. To implement connection between devices using router.

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