DATA COMMUNICATION AND NETWORKING II

LAB MANUAL

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FATHER'S NAME: ABDUL RAUF

SEAT NO.: B21110006057

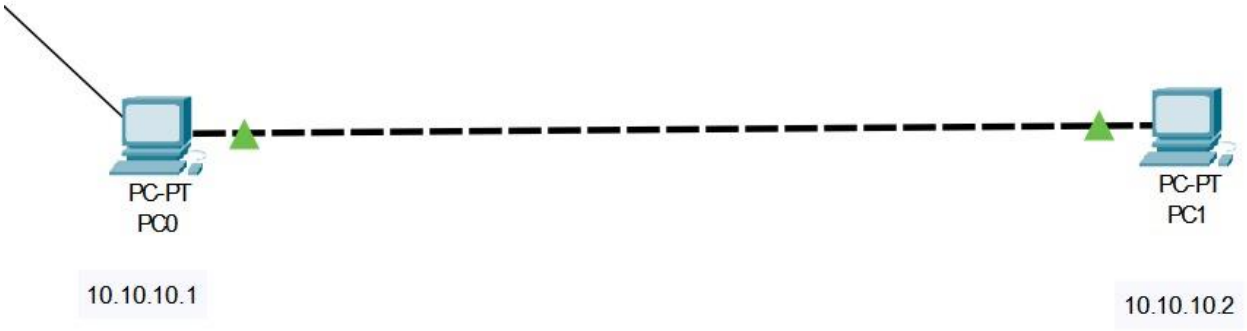
CLASS: BSCS-A (3RD YEAR)

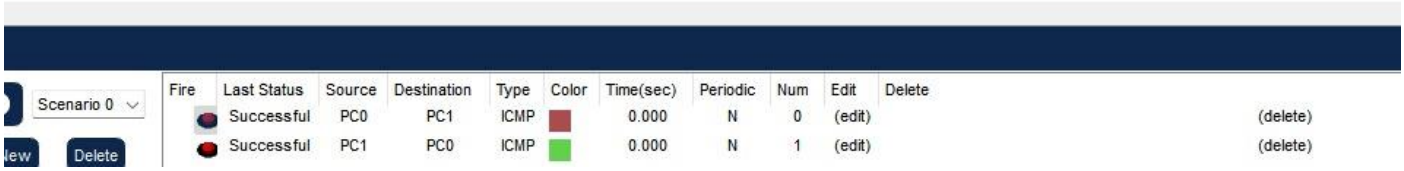
SUBJECT: DATA COMMUNICATION AND NETWORKING II

COURSE CODE: 512

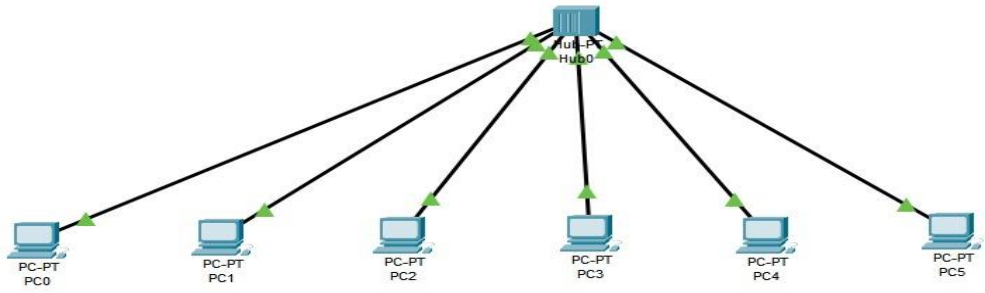
LAB TEACHER: MISS ATIA AGHA

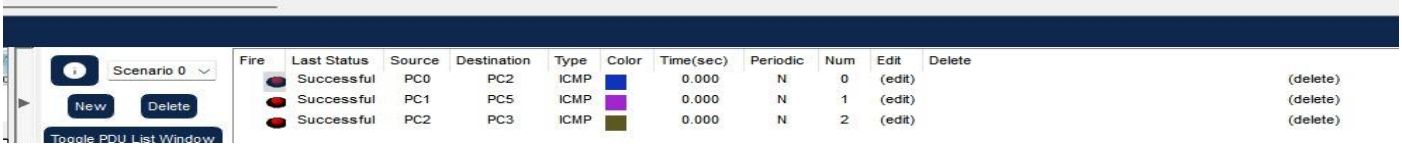
PEER TO PEER CONNECTION



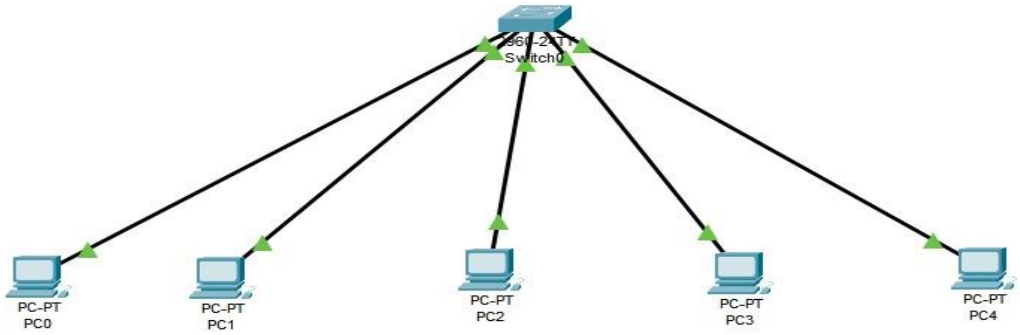


HUB





SWITCH



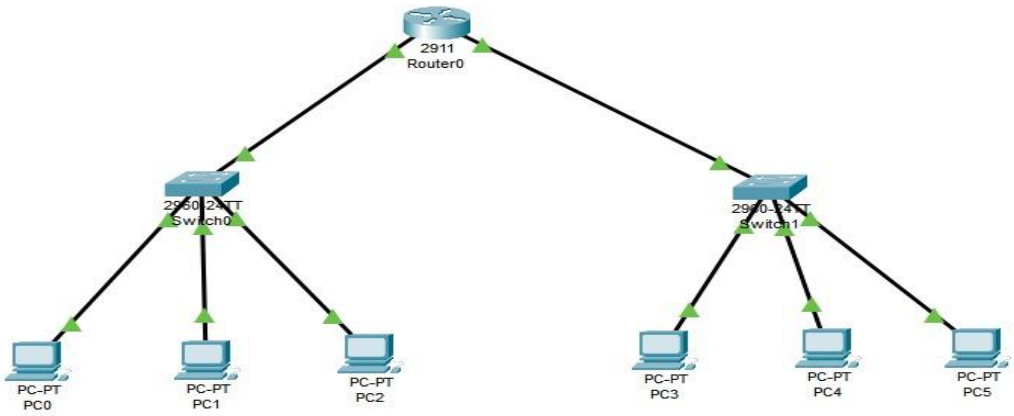
Scenario 0

New | Delete

ggle PDU List Window

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	PC0	PC2	ICMP		0.000	N	0	(edit)	(delete)
	Successful	PC1	PC4	ICMP		0.000	N	1	(edit)	(delete)
	Successful	PC2	PC3	ICMP		0.000	N	2	(edit)	(delete)

ROUTER



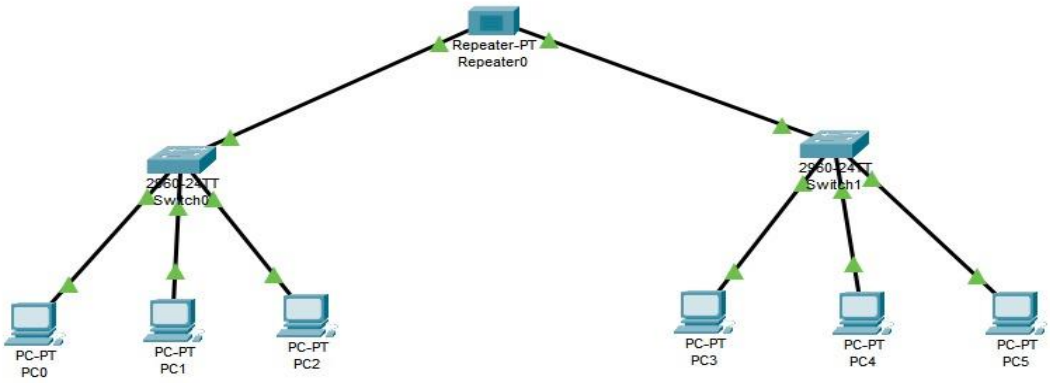
Scenario 0

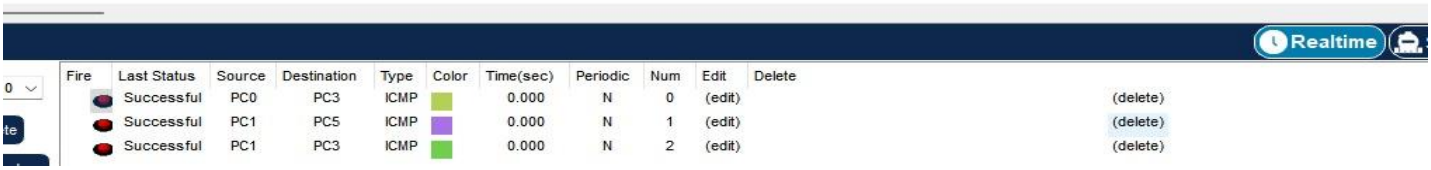
Delete

PDU List Window

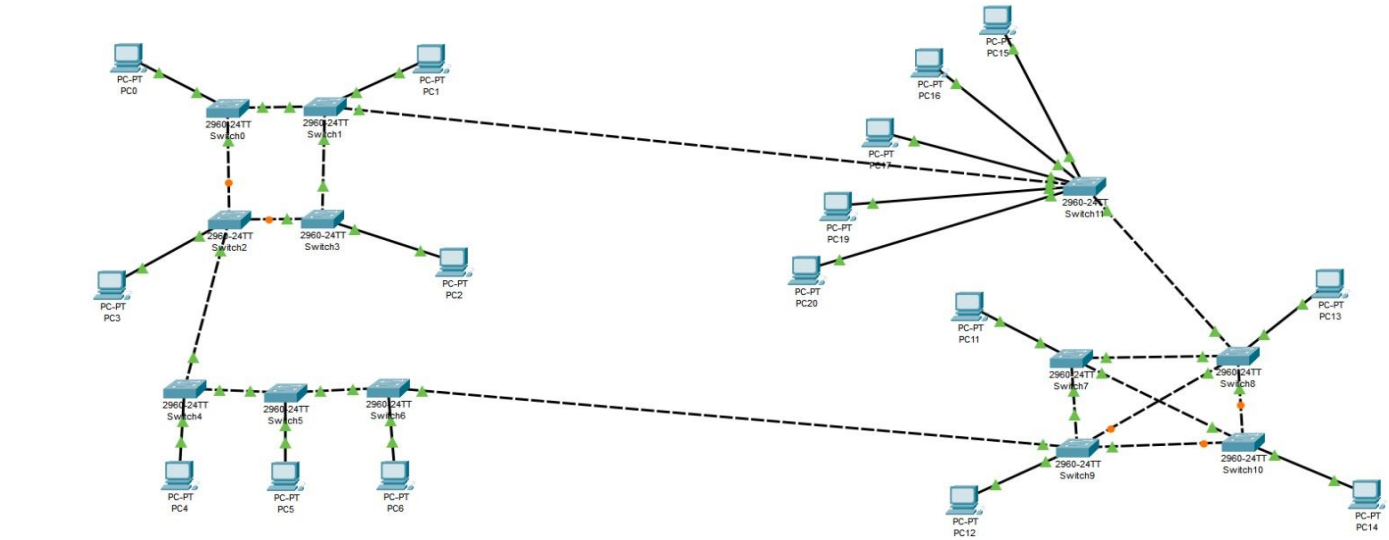
Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	PC1	PC5	ICMP		0.000	N	0	(edit)	(delete)
	Successful	PC0	PC3	ICMP		0.000	N	1	(edit)	(delete)
	Successful	PC1	PC4	ICMP		0.000	N	2	(edit)	(delete)
	Successful	PC2	PC3	ICMP		0.000	N	3	(edit)	(delete)

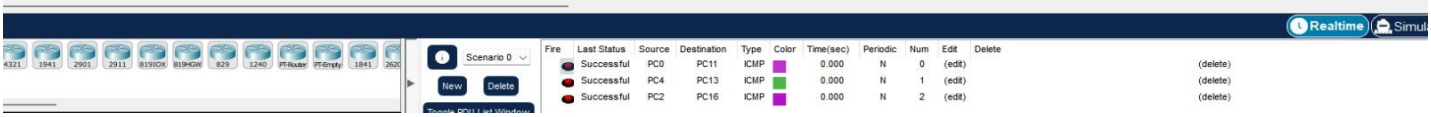
REPEATER





TOPOLOGY



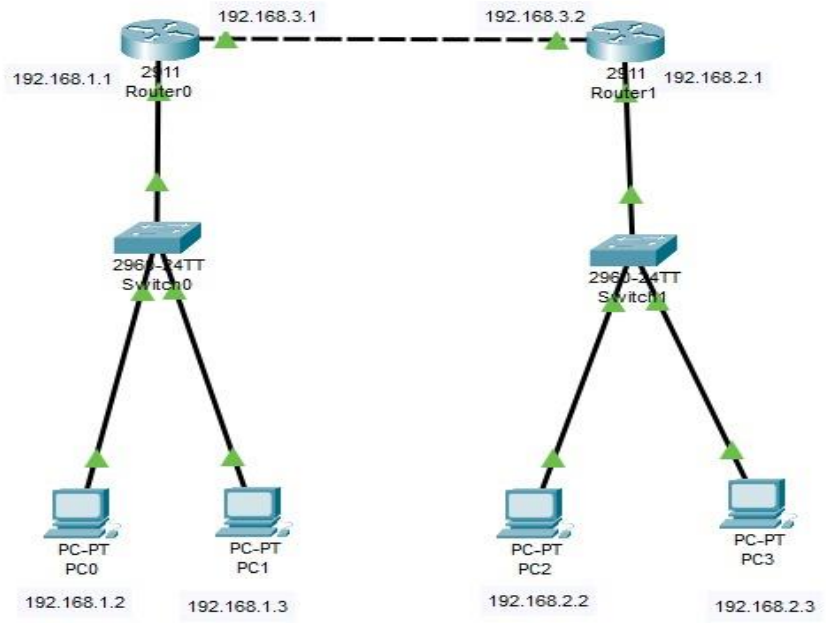


Physical Config Desktop Programming Attributes

Command Prompt X

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.0.1

Pinging 192.168.0.1 with 32 bytes of data:

Reply from 192.168.0.1: bytes=32 time=10ms TTL=128
Reply from 192.168.0.1: bytes=32 time<1ms TTL=128
Reply from 192.168.0.1: bytes=32 time<1ms TTL=128
Reply from 192.168.0.1: bytes=32 time=19ms TTL=128

Ping statistics for 192.168.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 19ms, Average = 7ms

C:\>
```

STATIC ROUTING



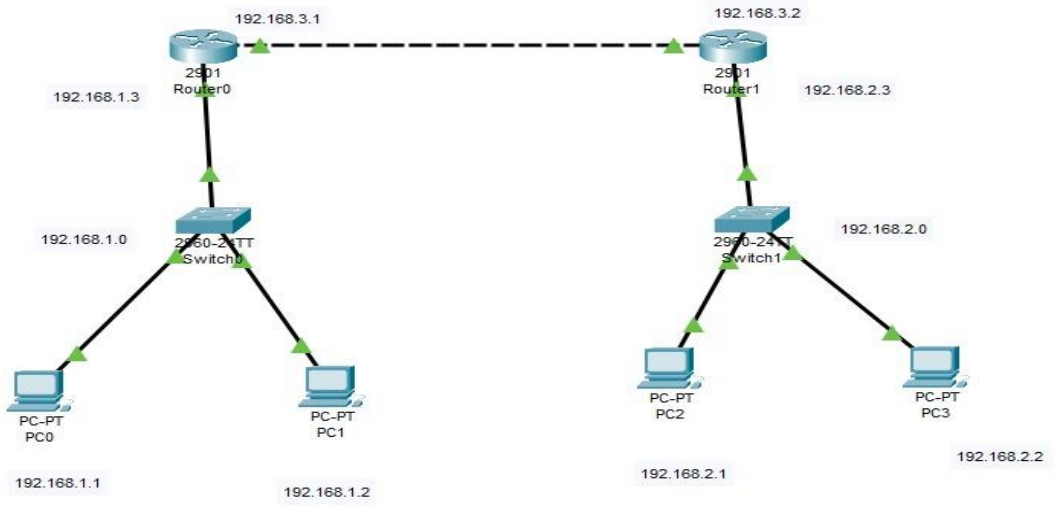
enario 0

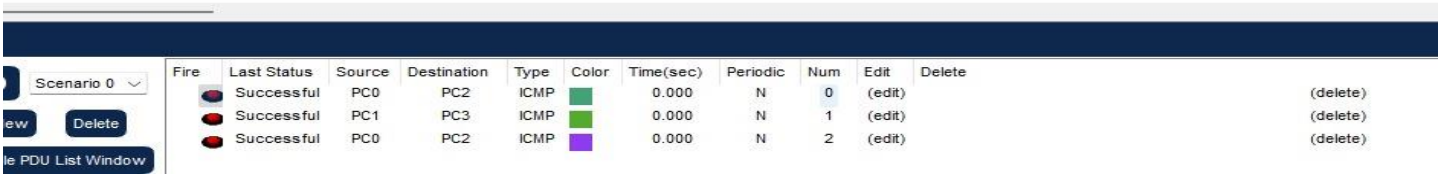
Delete

List Window

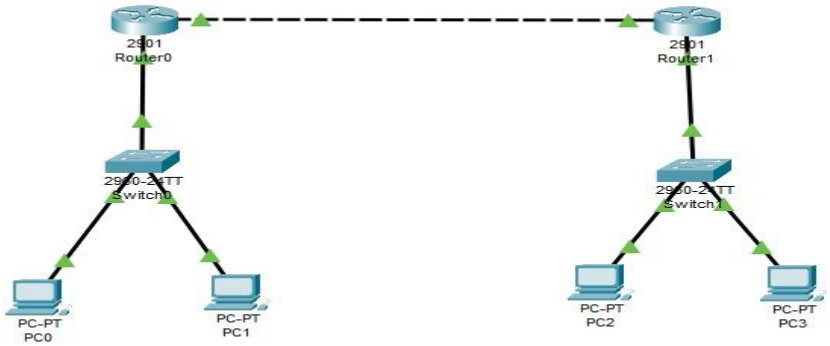
Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	PC0	PC2	ICMP		0.000	N	0	(edit)	
	Successful	PC1	PC3	ICMP		0.000	N	1	(edit)	
	Successful	PC1	PC3	ICMP		0.000	N	2	(edit)	

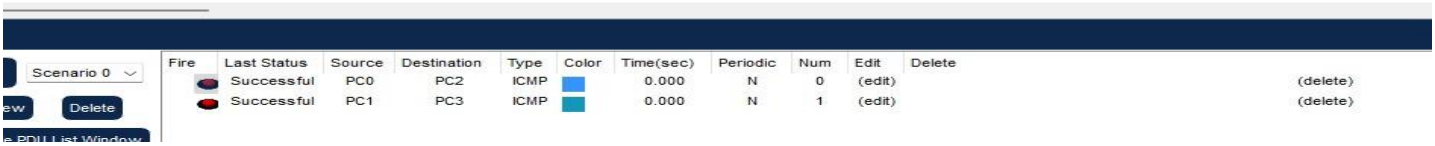
STATIC ROUTING USING CLI



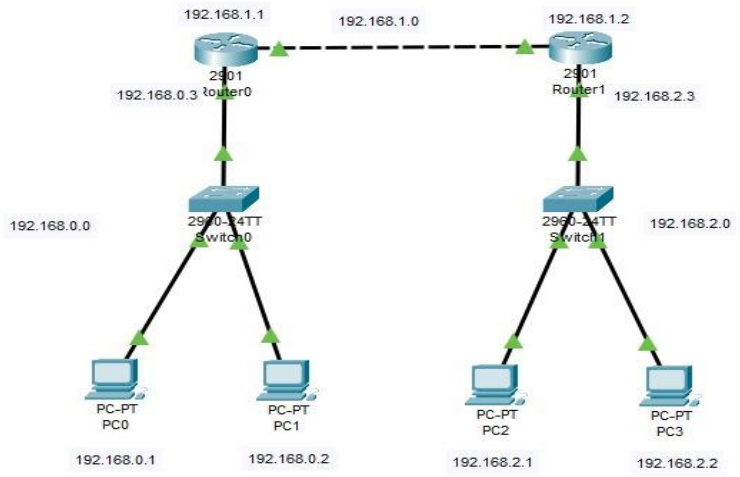


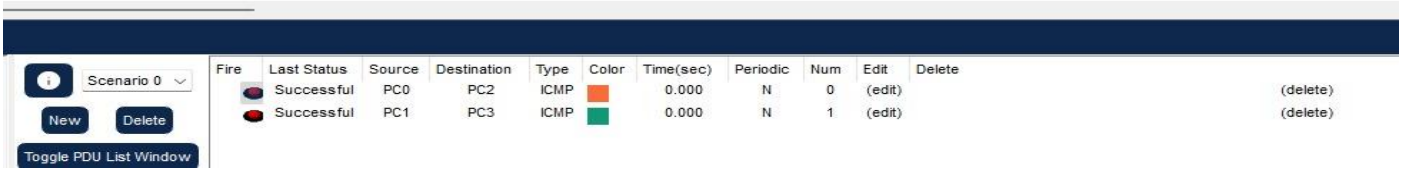
DYNAMIC ROUTING RIP



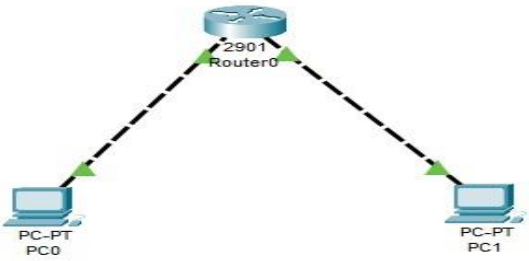


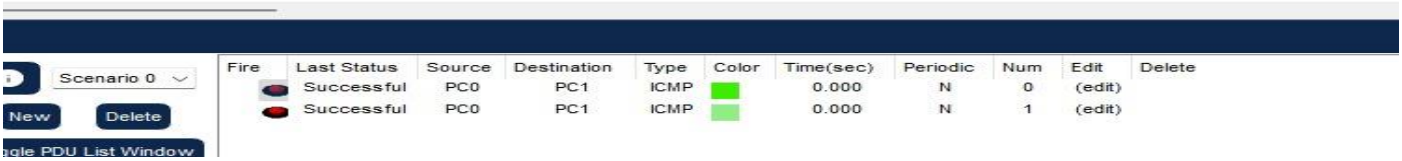
DYNAMIC ROUTING USING CLI



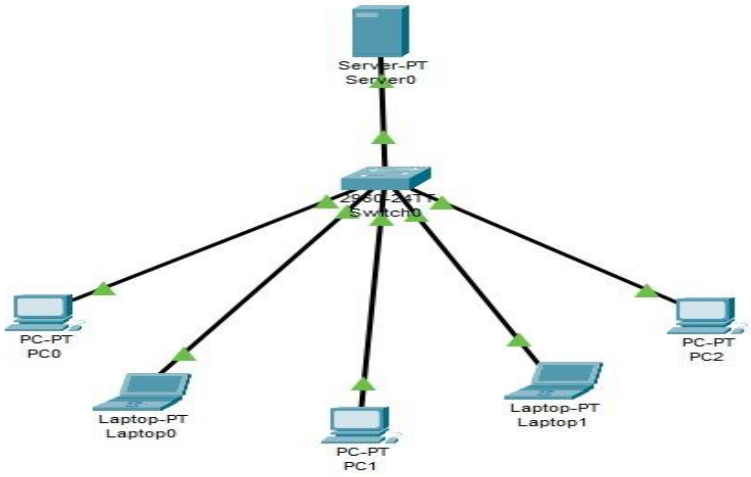


DHCP ON ROUTER





DHCP ON SERVER



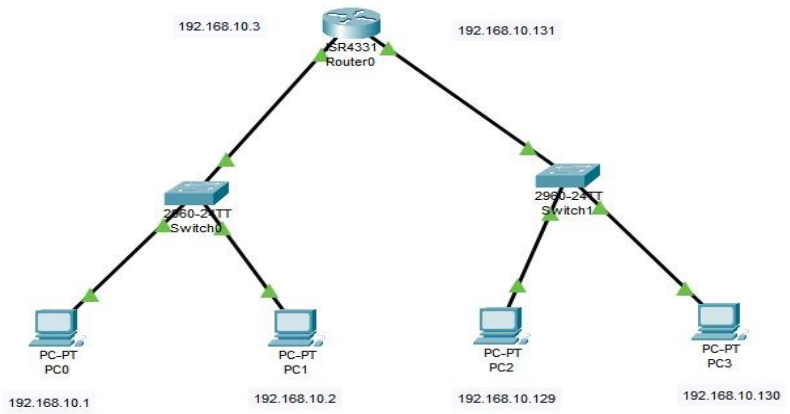
Scenario 0

Delete

le PDU List Window

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	Server0	Laptop0	ICMP		0.000	N	0	(edit)	
	Successful	PC0	Laptop1	ICMP		0.000	N	1	(edit)	
	Successful	PC1	Laptop1	ICMP		0.000	N	2	(edit)	

SUBNETTING



Realtime

Scenario 0

Delete

DU List Window

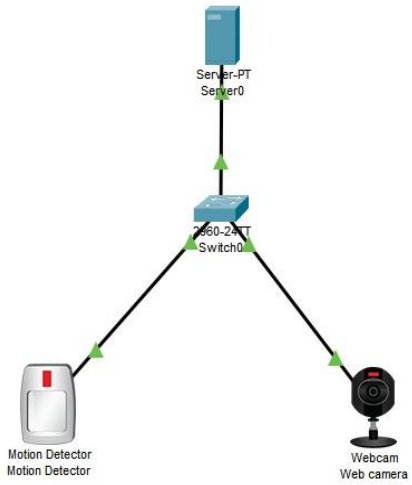
Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete	
	Successful	PC0	Router0	ICMP		0.000	N	0	(edit)		(delete)
	Successful	PC0	PC3	ICMP		0.000	N	1	(edit)		(delete)
	Successful	PC1	PC2	ICMP		0.000	N	2	(edit)		(delete)
	Successful	PC2	PC3	ICMP		0.000	N	3	(edit)		(delete)

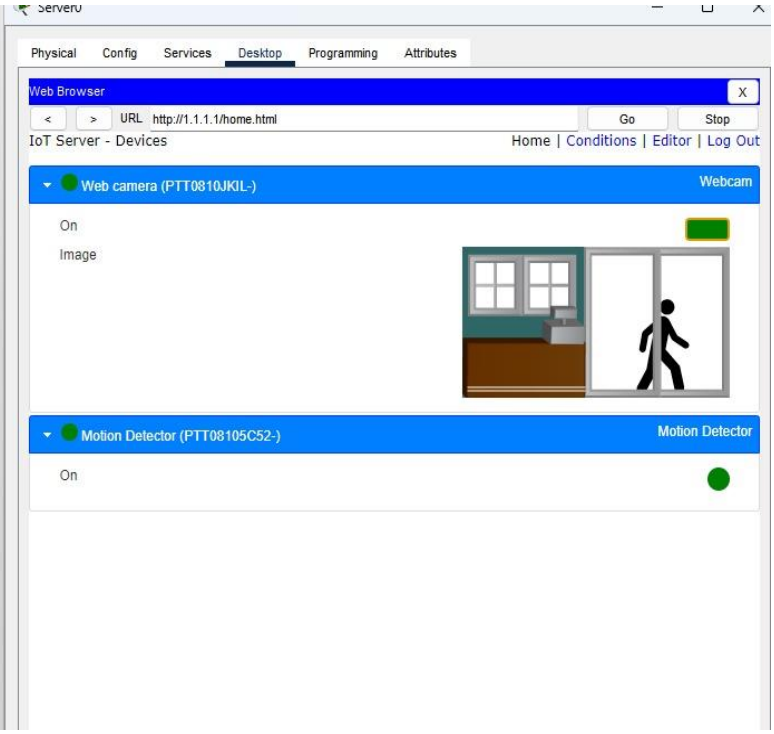
SETTING PASSWORD ON SWITCH AND ROUTER

CLI -> en-> conf t -> enable password (Enter password)-> exit
show running->config
shows the password not safe.

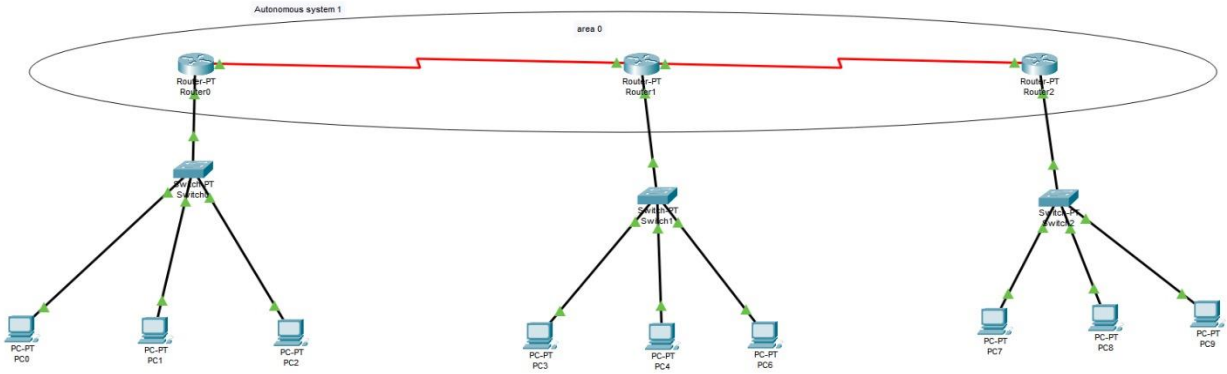
CLI -> en-> conf t -> enable secret (Enter password)-> exit
show running->config
shows the encrypted password safe.

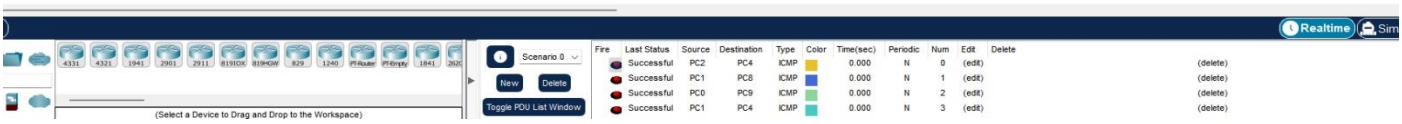
HOME AUTOMATION SYSTEM



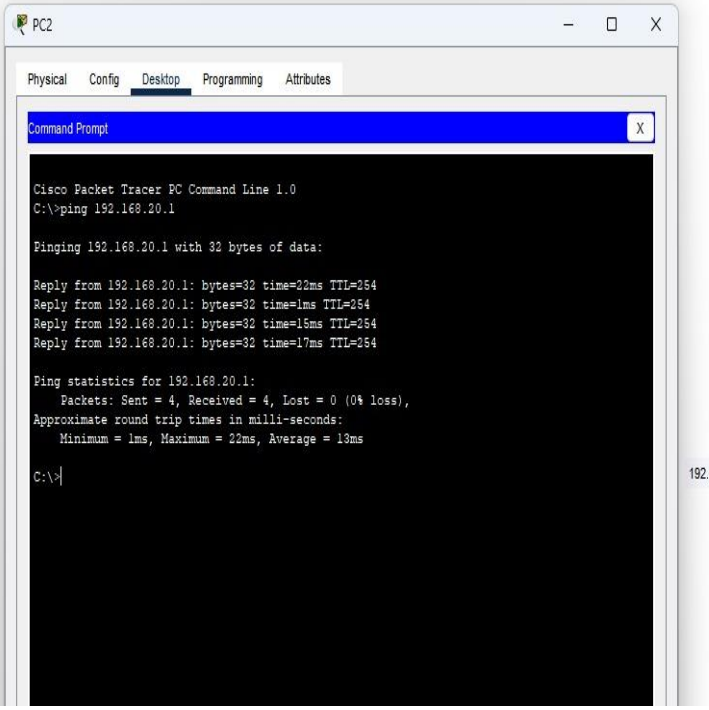


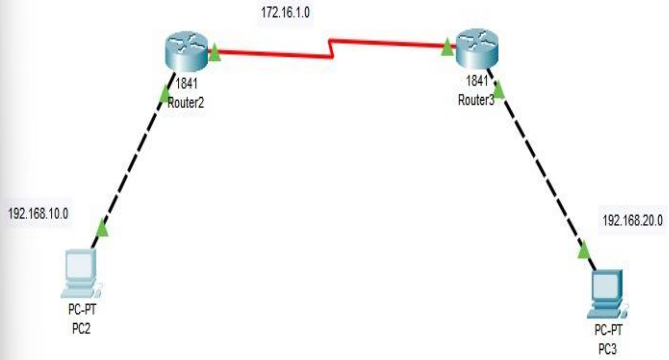
OSPF





RIP V2





CONFIGURING RIP V2