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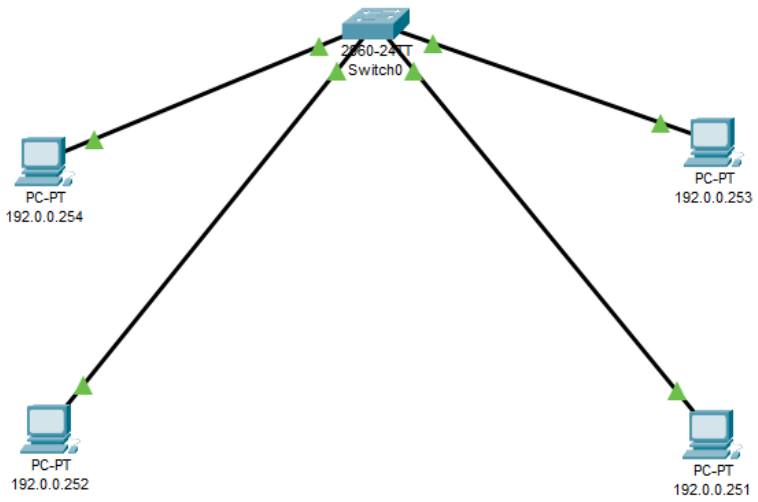
Computer Networks Lab

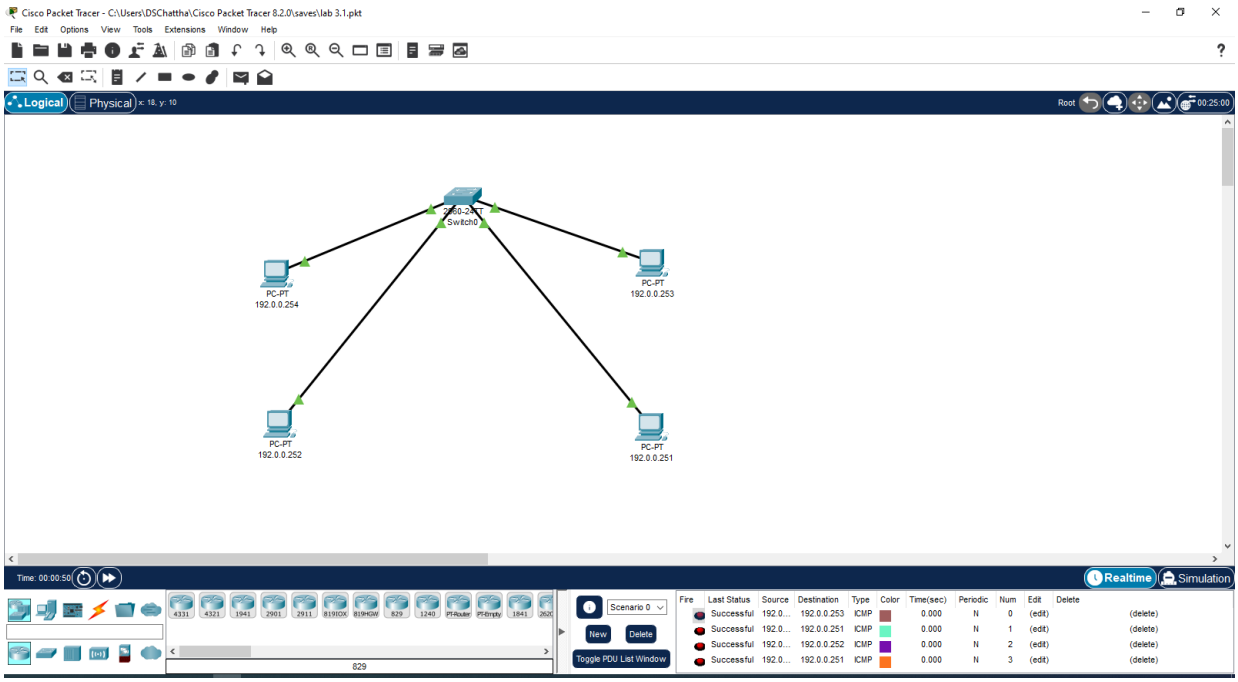
Task #01

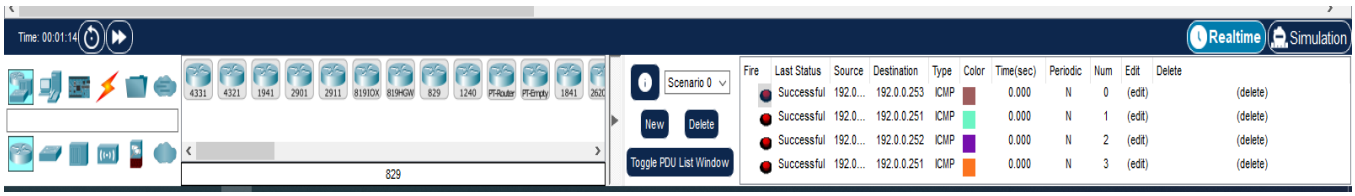
1-In this task I'm using switch connected with 4 PC's .

2-IP address of class C is being used .

Following screenshot of event list is showing how message is being transferred between devices.







Task #02

Here I used switches and IP address of class C.

Below screenshot showing how message is transferred between devices.

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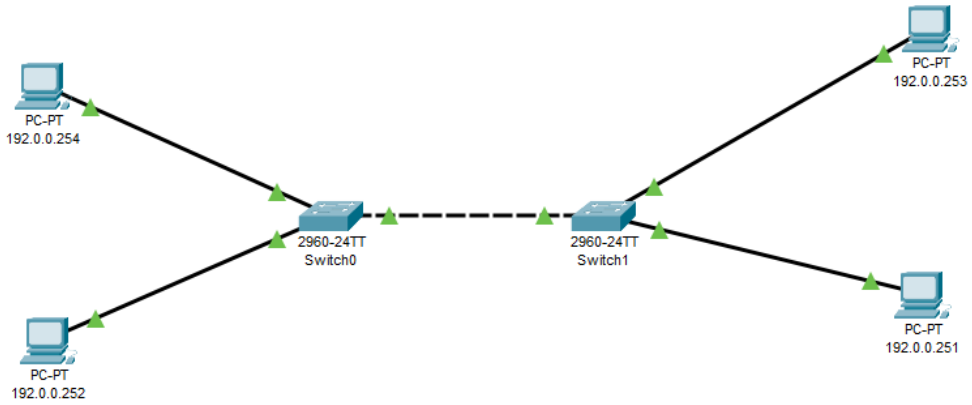
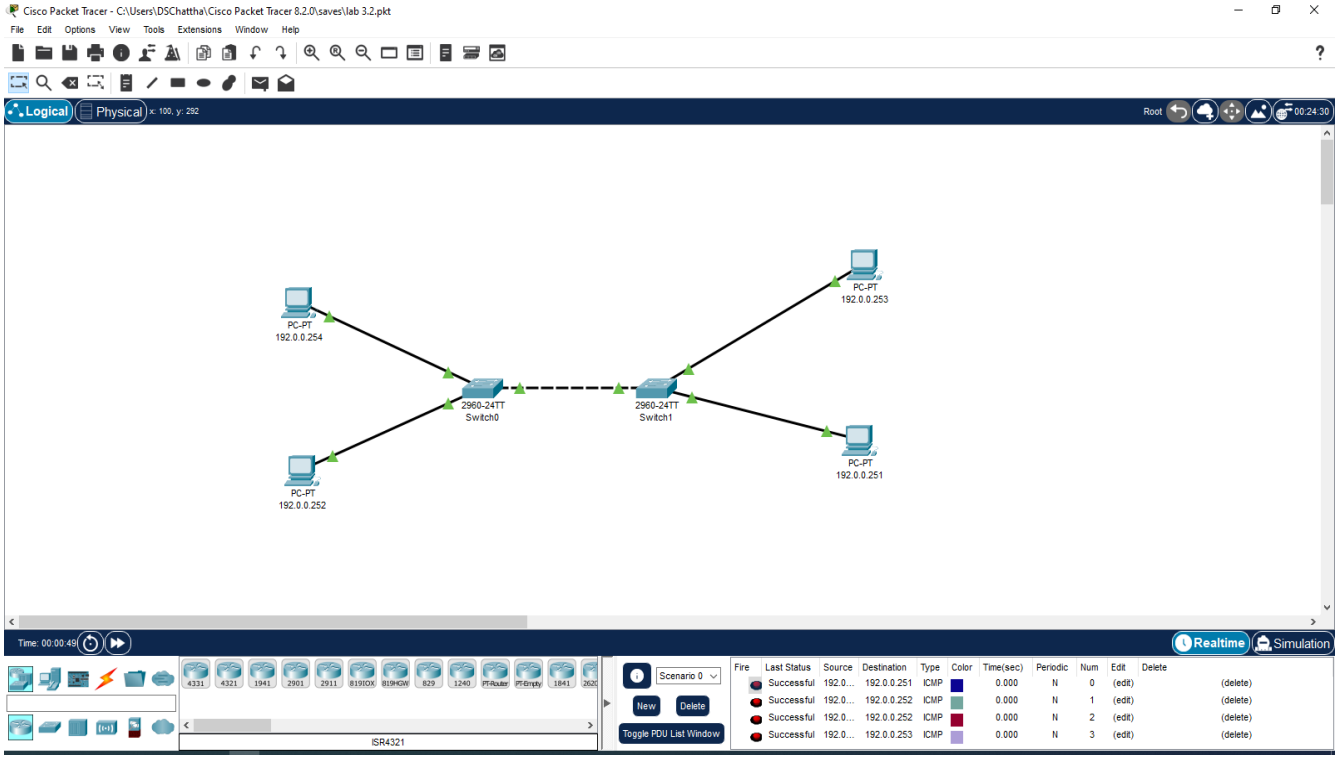

PC-PT
192.0.0.254
PC-PT
192.0.0.253
2960-24TT
Switch0
2960-24TT
Switch1
PC-PT
192.0.0.252
PC-PT
192.0.0.251


Cisco Packet Tracer - C:\Users\DSChattha\Cisco Packet Tracer 8.2.0\saves\lab 3.2.pkt
File Edit Options View Tools Extensions Window Help
Logical
Physical
Root
PC-PT
192.0.0.254
PC-PT
192.0.0.253
2960-24TT
Switch0
2960-24TT
Switch1
PC-PT
192.0.0.252
PC-PT
192.0.0.251
Time: 00:00:49
Realtime
Simulation
Scenario 0
New
Delete
Toggle PDU List Window
ISR4321
Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete
Successful 192.0... 192.0.0.251 ICMP 0.000 N 0 (edit) (delete)
Successful 192.0... 192.0.0.252 ICMP 0.000 N 1 (edit) (delete)
Successful 192.0... 192.0.0.252 ICMP 0.000 N 2 (edit) (delete)
Successful 192.0... 192.0.0.253 ICMP 0.000 N 3 (edit) (delete)

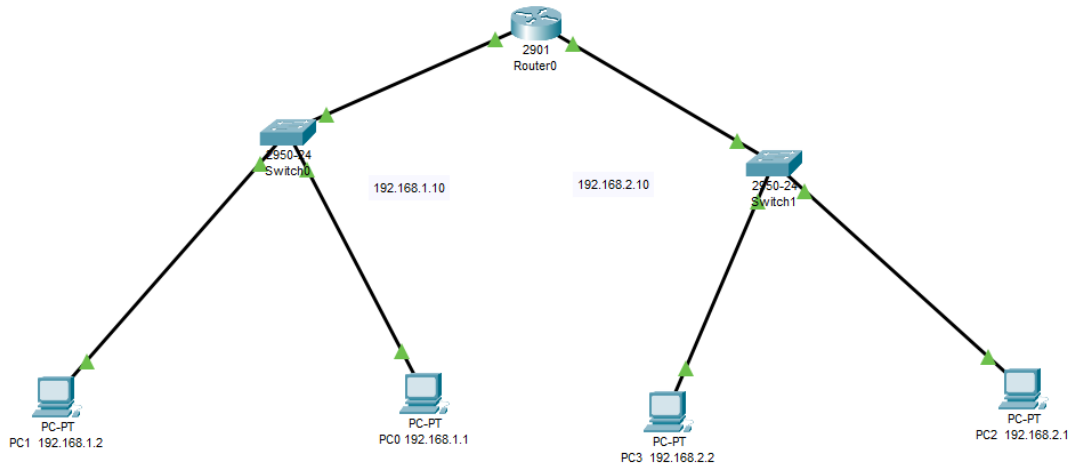

Time: 00:01:27
Realtime
Simulation
Scenario 0
New
Delete
Toggle PDU List Window
ISR4321
Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete
Successful 192.0... 192.0.0.251 ICMP 0.000 N 0 (edit) (delete)
Successful 192.0... 192.0.0.252 ICMP 0.000 N 1 (edit) (delete)
Successful 192.0... 192.0.0.252 ICMP 0.000 N 2 (edit) (delete)
Successful 192.0... 192.0.0.253 ICMP 0.000 N 3 (edit) (delete)

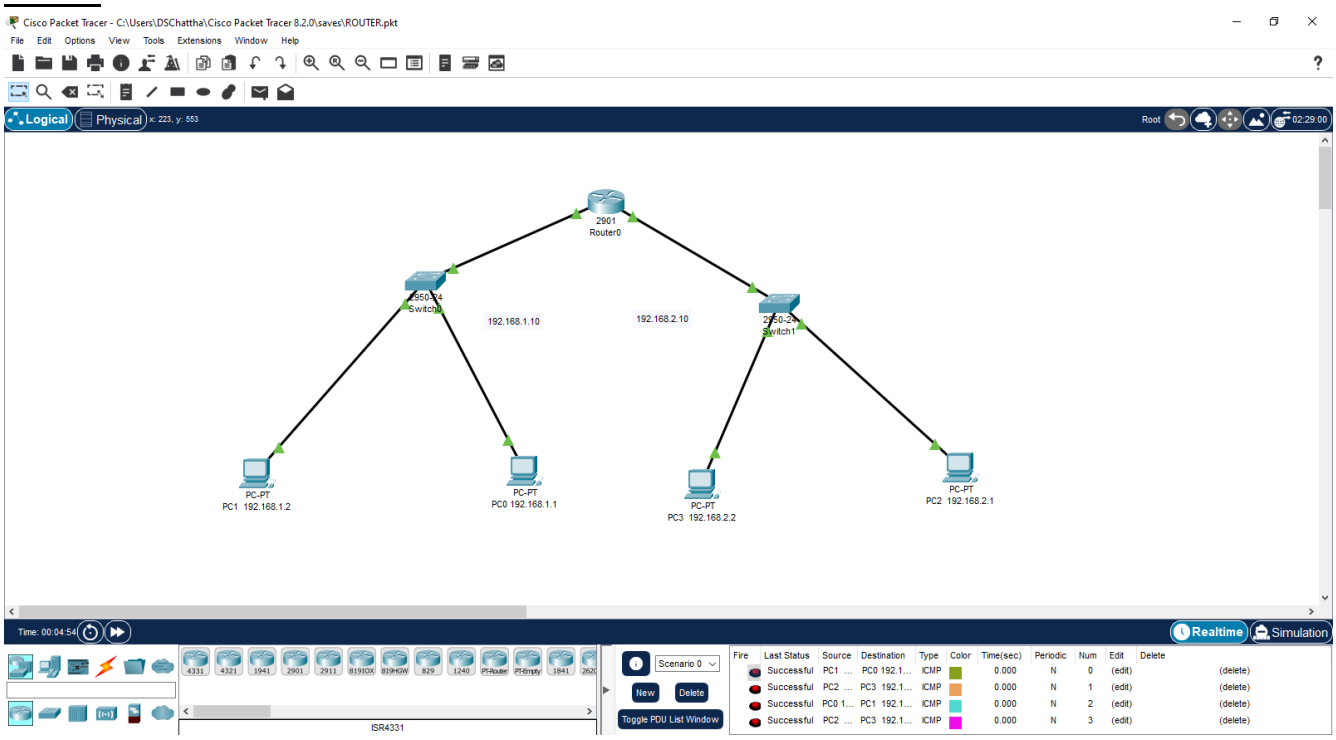
Task#03

Using 1 router and 2 switches

Using IP address of C class

Following screenshots are showing transmission of message through different devices.



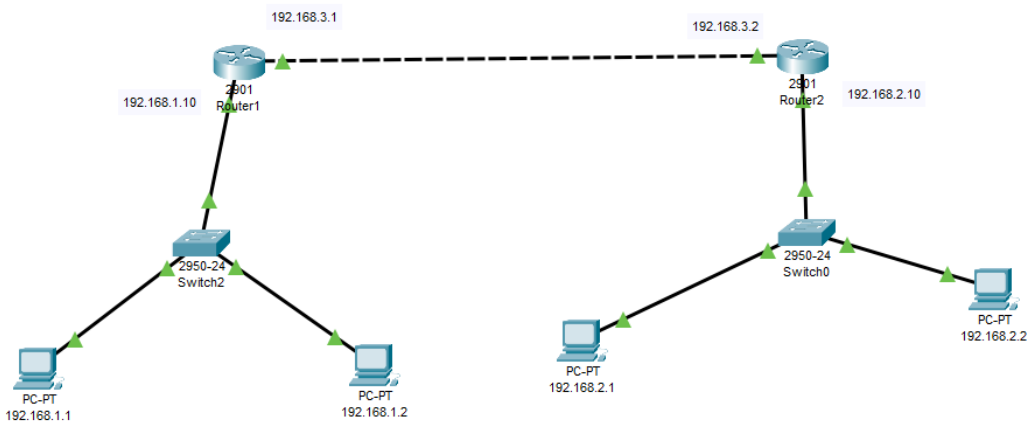


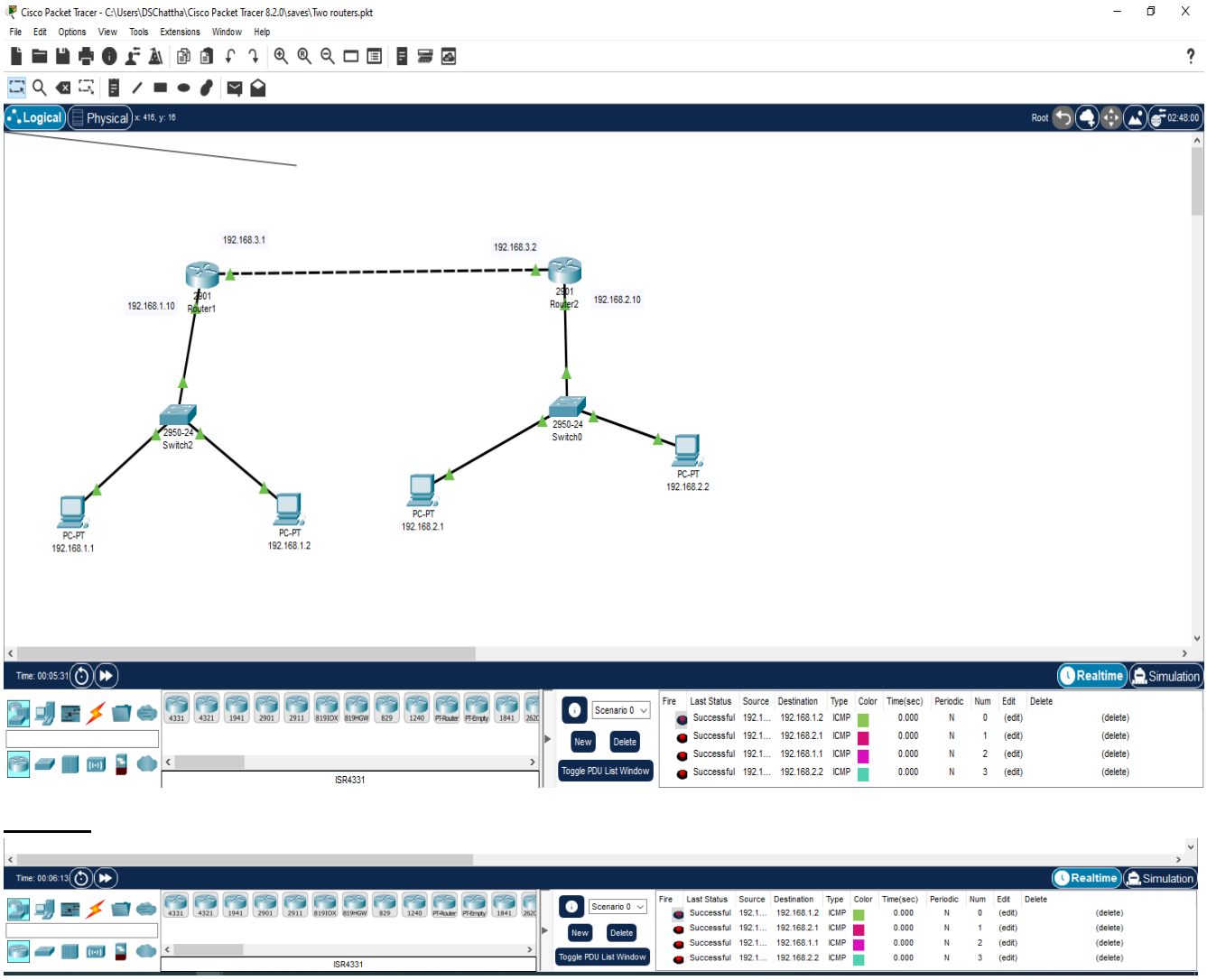
Task#04

In this local area network we used 2 routers and 2 switches connecting different PC's

Also in the following network IP of class C is used.

Default gateway of routers also set according to switches connecting with them




Cisco Packet Tracer - C:\Users\DSChattha\Cisco Packet Tracer 8.2.0\saves\Two routers.pkt
File Edit Options View Tools Extensions Window Help
Logical Physical x: 416, y: 16
Root 02:48:00
192.168.3.1
192.168.3.2
2901 Router1
2901 Router2
192.168.1.10
192.168.2.10
2950-24 Switch2
2950-24 Switch0
PC-PT 192.168.1.1
PC-PT 192.168.1.2
PC-PT 192.168.2.1
PC-PT 192.168.2.2
Time: 00:05:31
Realtime Simulation
ISR4331
Scenario 0
New Delete
Toggle PDU List Window
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) (delete)
Successful 192.1... 192.168.2.1 ICMP 0.000 N 1 (edit) (delete)
Successful 192.1... 192.168.1.1 ICMP 0.000 N 2 (edit) (delete)
Successful 192.1... 192.168.2.2 ICMP 0.000 N 3 (edit) (delete)

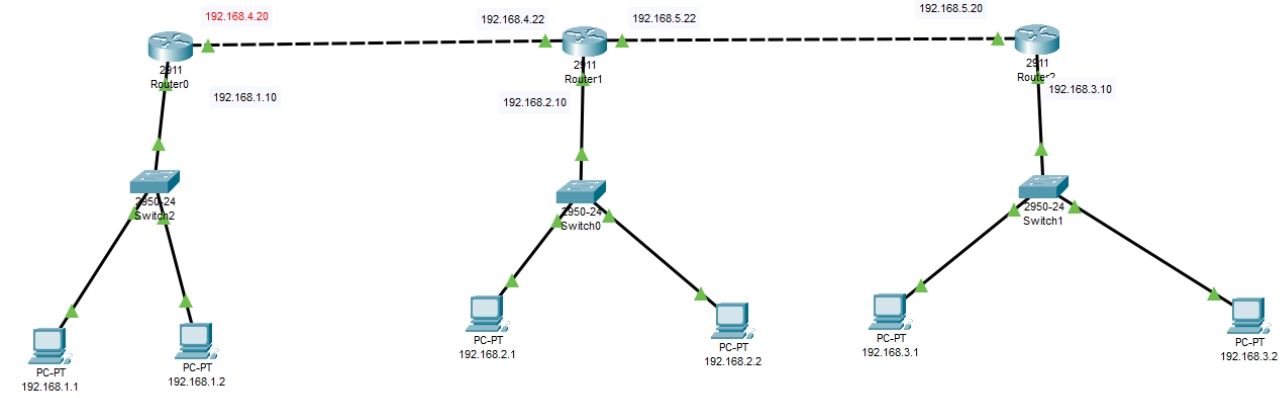
Time: 00:06:13
Realtime Simulation
ISR4331
Scenario 0
New Delete
Toggle PDU List Window
Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete
Successful 192.1... 192.168.1.2 ICMP 0.000 N 0 (edit) (delete)
Successful 192.1... 192.168.2.1 ICMP 0.000 N 1 (edit) (delete)
Successful 192.1... 192.168.1.1 ICMP 0.000 N 2 (edit) (delete)
Successful 192.1... 192.168.2.2 ICMP 0.000 N 3 (edit) (delete)

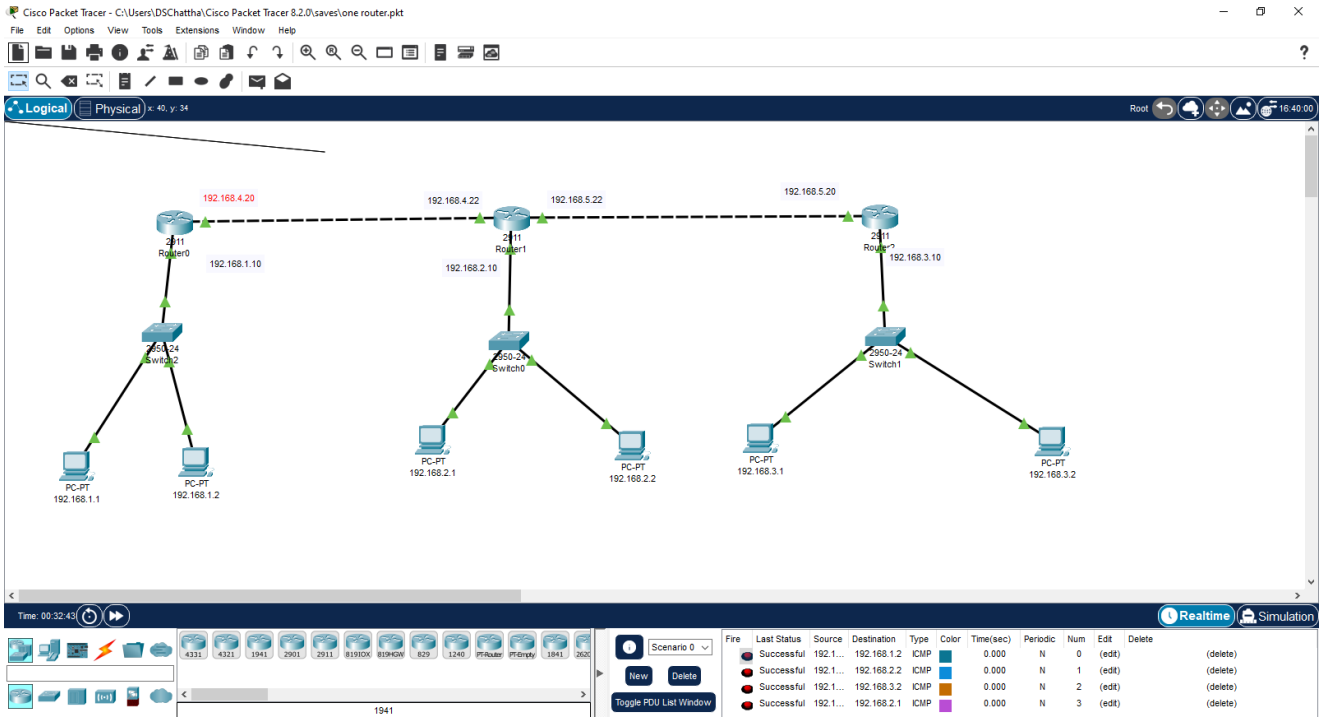
Task#05

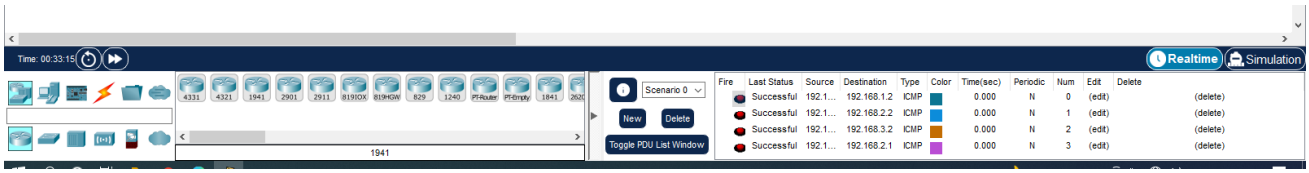
In this local area network we used 3 routers and 3 switches connecting different PC's

Also in the following network IP of class C is used.

Default gateway of routers also set according to switches connecting with them.






Time: 00:33:15
Realtime
Simulation
4331
4321
1941
2901
2911
819IOX
819HGW
829
1240
PT-Router
PT-Empty
1841
1941
Scenario 0
New
Delete
Toggle PDU List Window
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) (delete)
Successful 192.1... 192.168.2.2 ICMP 0.000 N 1 (edit) (delete)
Successful 192.1... 192.168.3.2 ICMP 0.000 N 2 (edit) (delete)
Successful 192.1... 192.168.2.1 ICMP 0.000 N 3 (edit) (delete)