COMPUTER NETWORKS LAB
COURSE CODE:UE19CS255

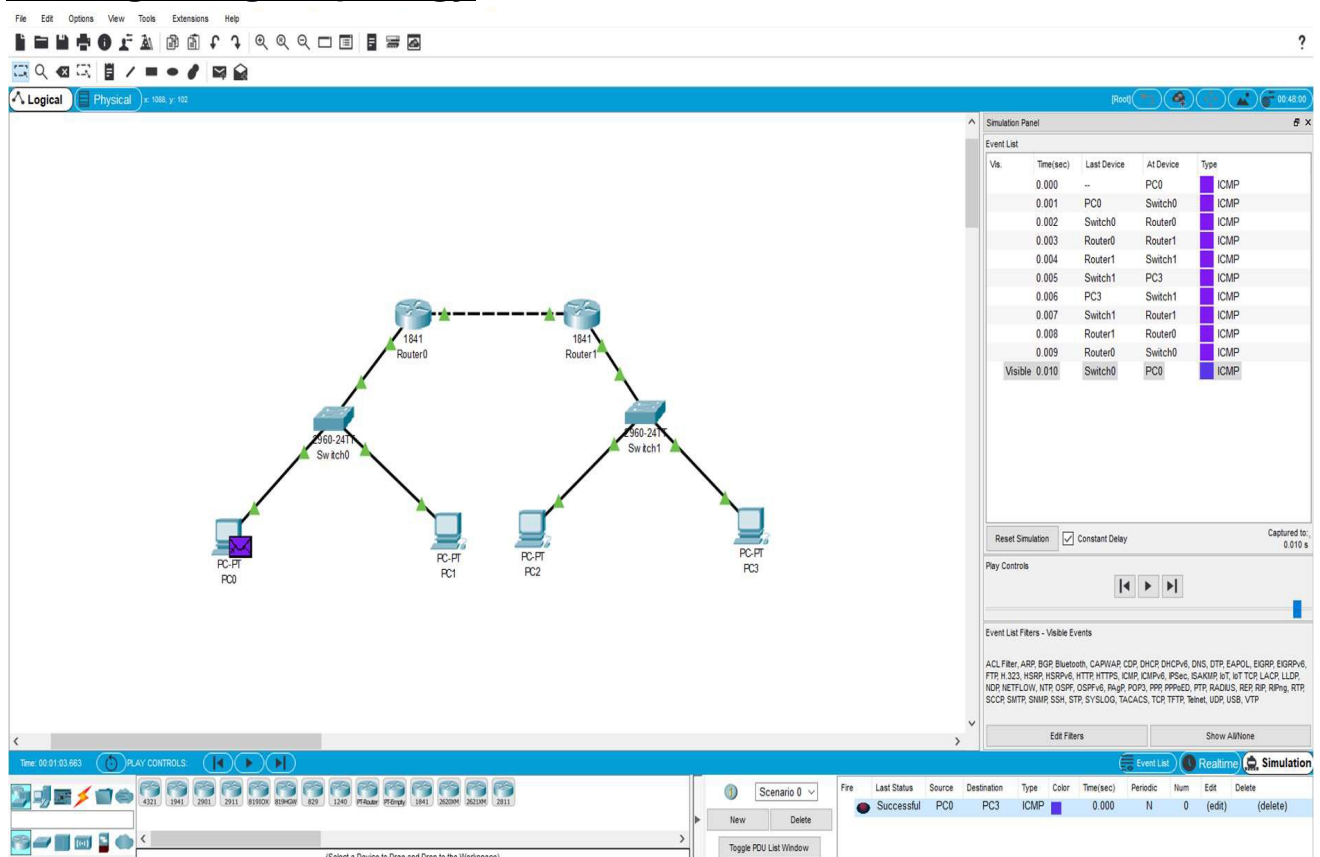**NAME:PRIYA MOHATA**   **SRN:PES2UG19CS301**

SECTION:E   **DATE:07/03/2021**

EXPERIMENT :

1. ## Task 1

Configuring Topology

Configuring Network and Routing Tables

End System	Interface Name	IP Address	Subnet Mask	Gateway
PC0	FastEthernet0	10.0.0.1	255.0.0.0	10.0.0.3

PC1	FastEthernet0	10.0.0.2	255.0.0.0	10.0.0.3
PC2	FastEthernet0	30.0.0.2	255.0.0.0	30.0.0.1
PC3	FastEthernet0	30.0.0.3	255.0.0.0	30.0.0.1

Router Configuration

Router	Interface Name	IP Address	Subnet Mask
Router0	FastEthernet0/0	10.0.0.3	255.0.0.0
Router0	FastEthernet0/1	20.0.0.1	255.0.0.0
Router1	FastEthernet0/0	20.0.0.2	255.0.0.0
Router1	FastEthernet0/1	30.0.0.1	255.0.0.0

Routing Table

Router	Destination Network	Next Hop
Router0	30.0.0.0	20.0.0.2
Router1	10.0.0.0	20.0.0.1

TASK 2:
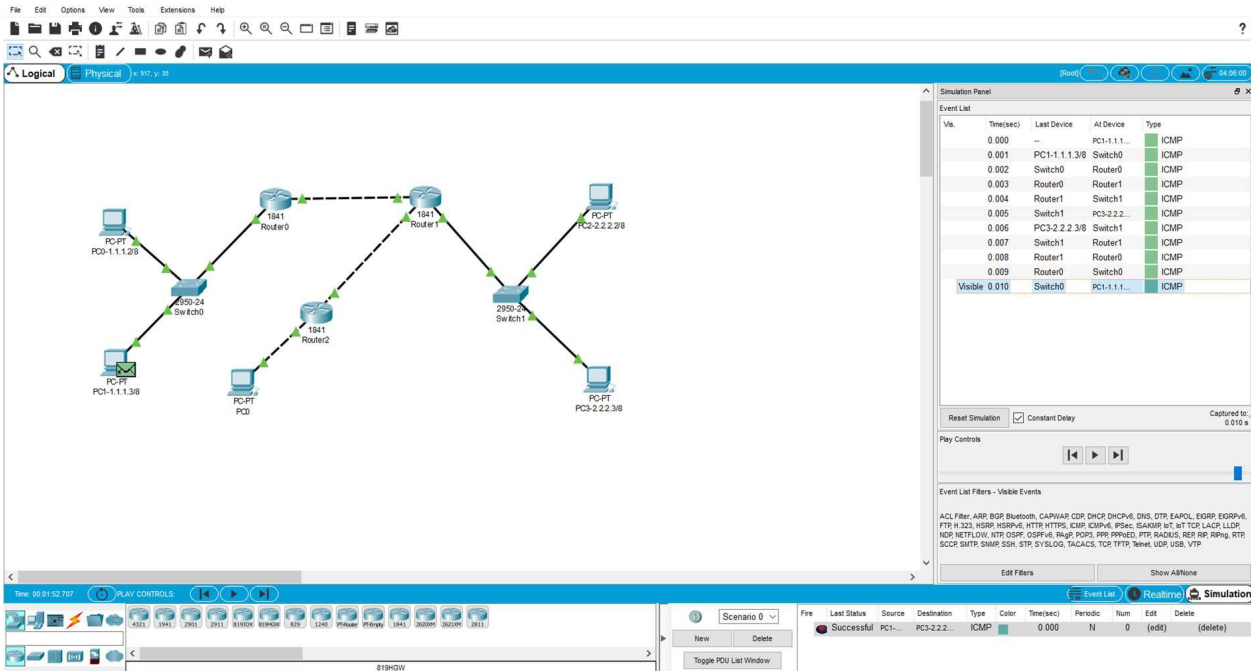
Configuring Network and Routing Tables

End System	Interface Name	IP Address	Subnet Mask	Gateway
PC0-1.1.1.2/8	FastEthernet0	1.1.1.2	255.0.0.0	10.0.0.3
PC1-1.1.1.3/8	FastEthernet0	1.1.1.3	255.0.0.0	10.0.0.3
PC0	FastEthernet0	6.6.6.2	255.0.0.0	30.0.0.1
PC2-2.2.2.2/8	FastEthernet0	2.2.2.2	255.0.0.0	30.0.0.1
PC3-2.2.2.3/8	FastEthernet0	2.2.2.3	255.0.0.0	2.2.2.1

Router Configuration

Router	Interface Name	IP Address	Subnet Mask
Router0	FastEthernet0/0	1.1.1.1	255.0.0.0
Router0	FastEthernet0/1	3.3.3.1	255.0.0.0
Router1	FastEthernet0/0	3.3.3.2	255.0.0.0
Router1	FastEthernet0/1	5.5.5.2	255.0.0.0
Router1	Ethernet0/0/0	2.2.2.1	255.0.0.0
Router2	FastEthernet0/1	5.5.5.1	255.0.0.0
Router2	FastEthernet0/1	6.6.6.1	255.0.0.0

Routing Table

Router	Destination Network	Next Hop
Router0	2.2.2.0	3.3.3.2
Router0	5.5.5.0	3.3.3.2
Router0	6.6.6.0	3.3.3.2
Router1	1.1.1.0	3.3.3.1
Router1	6.6.6.0	5.5.5.1
Router2	3.3.3.0	5.5.5.2
Router2	1.1.1.0	5.5.5.2
Router2	2.2.2.0	5.5.5.2

----------------Thank You-----------