COMPUTER NETWORKS LAB

Designing and Simulation of Network Topology using Cisco Packet Tracer

WEEK 2

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SECTION: F
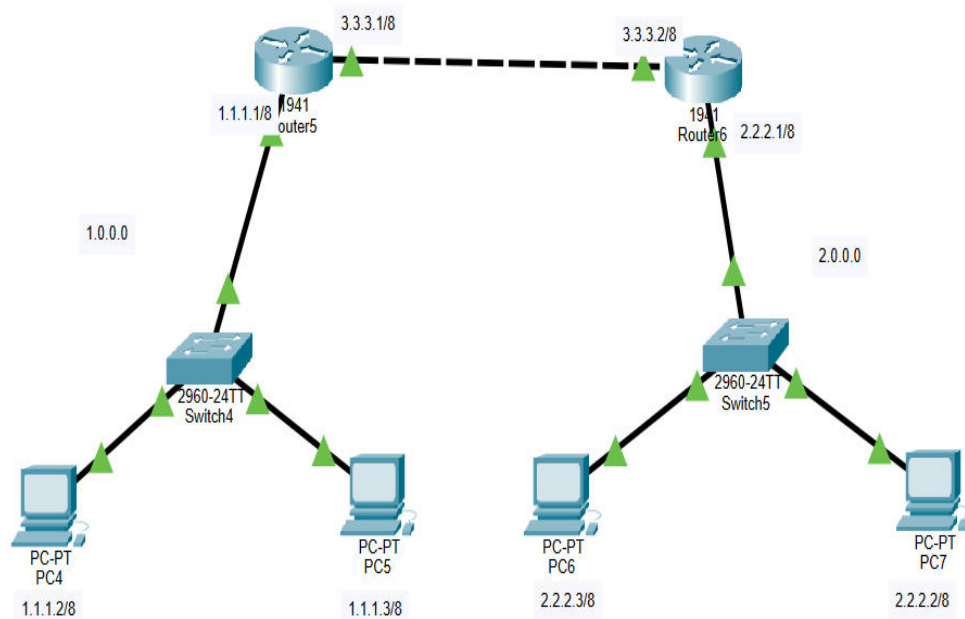**DATE: 29/01/2022**

Objectives:

- To understand the purpose of Cisco Packet Tracer.
- To navigate, choose network and end devices and customize them.
- To interconnect devices and configure them using simple interface.
- To become familiar with building topologies in Packet Tracer.
- To simulate data interactions travelling through a network.

Task 1 (Demo):

Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device	Type	
	0.000	--	PC4		ICMP
	0.001	PC4	Switch4		ICMP
	0.002	Switch4	Router5		ICMP
	0.003	Router5	Router6		ICMP
	0.004	Router6	Switch5		ICMP
	0.005	Switch5	PC7		ICMP
	0.006	PC7	Switch5		ICMP
	0.007	Switch5	Router6		ICMP
	0.008	Router6	Router5		ICMP
	0.009	Router5	Switch4		ICMP
	0.010	Switch4	PC4		ICMP

			Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodi
Scenario 0 ▽				Successful	PC4	PC7	IC...		0.000	N
New	Delete									
Toggle PDU List Window										

10:50 AM

PC & Router Configuration Details:

PC4:
IP Address ---> 1.1.1.2
Gateway ---> 1.1.1.1
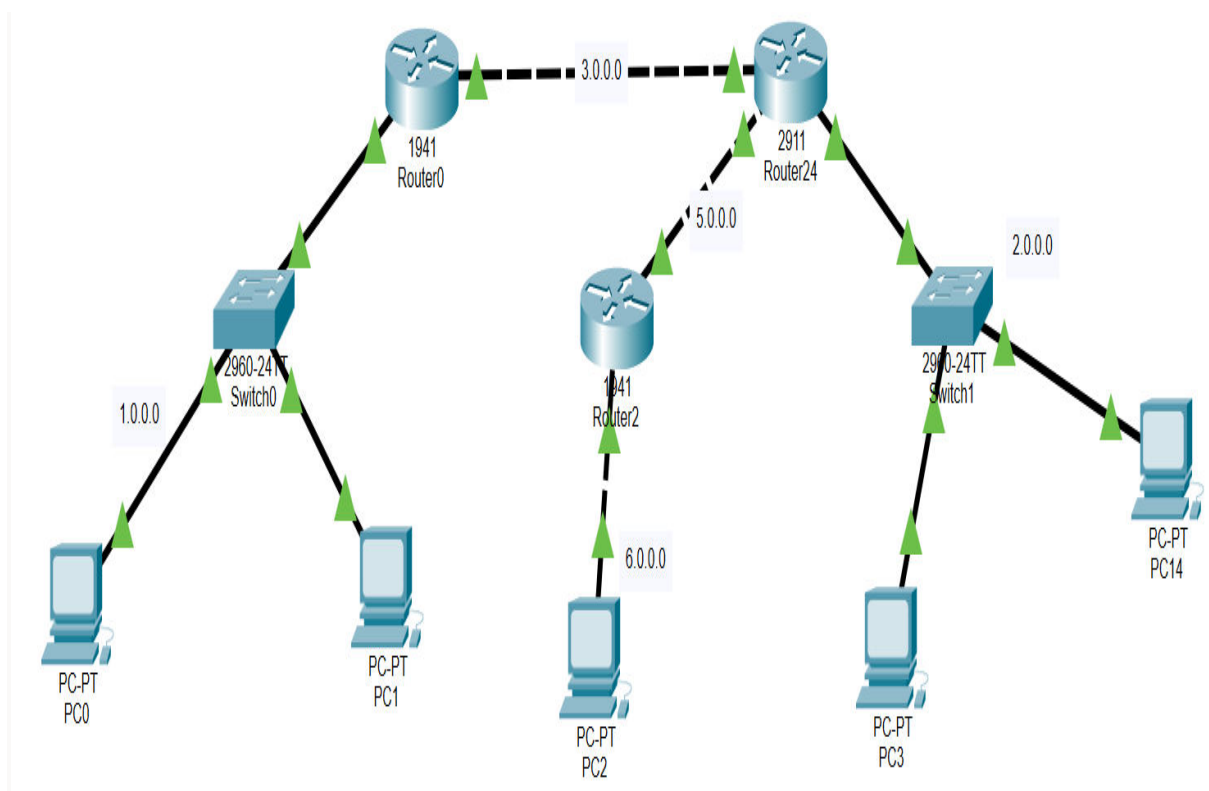
PC5:
IP Address ---> 1.1.1.3
Gateway ---> 1.1.1.1

Router 5:
FastEthernet0/0 ---> 1.1.1.1
FastEthernet0/1 ---> 3.3.3.1

Router 6:
FastEthernet0/0 ---> 3.3.3.2
FastEthernet0/1 ---> 2.2.2.1

PC6:
IP Address ---> 2.2.2.2
Gateway ---> 2.2.2.1

PC7:
IP Address ---> 2.2.2.3
Gateway ---> 2.2.2.1

Routing Table Entries:

Router	Network	Next Hop
Router5	2.0.0.0	3.3.3.2
Router6	1.0.0.0	3.3.3.1

Task 2 (Mandatory for Week-6):

Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device	Type	
	0.000	--	PC0	■	ICMP
	0.001	PC0	Switch0	■	ICMP
	0.002	Switch0	Router0	■	ICMP
	0.003	Router0	Router24	■	ICMP
	0.004	Router24	Switch1	■	ICMP
	0.005	Switch1	PC3	■	ICMP
	0.005	Switch1	PC14	■	ICMP
	0.006	PC3	Switch1	■	ICMP
	0.007	Switch1	Router24	■	ICMP
	0.008	Router24	Router0	■	ICMP
	0.009	Router0	Switch0	■	ICMP
	0.010	Switch0	PC0	■	ICMP
	0.058	--	Switch1	▮	STP

		Scenario 0 ∨	Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodi
▶	ⓘ		◀	Successful	PC0	PC3	IC...	■	0.000	N
	New Delete									
	Toggle PDU List Window									

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodi
◀	Successful	PC1	PC2	IC...	■	0.000	N

PC & Router Configuration Details:

PC0:
IP Address ---> 1.1.1.2
Gateway ---> 1.1.1.1

PC1:
IP Address ---> 1.1.1.3
Gateway ---> 1.1.1.1

Router 0:
GigabitEthernet0/0 ---> 1.1.1.1
GigabitEthernet0/1 ---> 3.3.3.1

Router 24:
GigabitEthernet0/0 ---> 3.3.3.2
GigabitEthernet0/1 ---> 5.5.5.2
GigabitEthernet0/2 ---> 2.2.2.1

Router 2:
GigabitEthernet0/0 ---> 5.5.5.1
GigabitEthernet0/1 ---> 6.6.6.1

PC2:
IP Address ---> 6.6.6.2
Gateway ---> 6.6.6.1

PC3:
IP Address ---> 2.2.2.2
Gateway ---> 2.2.2.1

PC14:
IP Address ---> 2.2.2.3
Gateway ---> 2.2.2.1

Routing Table Entries:

Router	Network	Next Hop
Router 0	2.0.0.0	3.3.3.2
	6.0.0.0	3.3.3.2
Router 24	1.0.0.0	3.3.3.1
	6.0.0.0	5.5.5.1
Router 2	2.0.0.0	5.5.5.2
	1.0.0.0	5.5.5.2