EXPERIMENT NO. 3

SEMESTER: V DATE OFPERFORMANCE:1/8/22

SUBJECT: CN Lab DATE OF SUBMISSION:8/8/22

ROLL NO.: 57

NAME OF THE STUDENT: Shrikrishna Umbare

AIM	To setup a network and configure IP addressing, subnetting, Masking using
	cisco packet tracer.
LEARNING	The student will understand use of CISCO packet tracer for network
OBJECTIVE	configurations.
LEARNING	The student will create the topology and complete IP address configuration for
OUTCOME	given scenario using cisco packet tracer.
	The student will create subnet for the given scenario using cisco packet tracer.
COURSE	CSL502.6: Design and Build a network topology usingpacket tracer.
OUTCOME	
PROGRAM	PO1, PO5,PO9,PO10,PSO1,PSO2,PSO3
OUTCOME	
BLOOM'S	Create
TAXONOMY	Cione
LEVEL	
THEORY	Cisco Packet Tracer is a cross-platform visual simulation tool designed by
	Cisco Systems that allows users to create network topologies and imitate
	modern computer networks. The software allows users to simulate the
	configuration of Cisco routers and switches using a simulated command line
	interface. Packet Tracer makes use of a drag and drop user interface, allowing
	users to add and remove simulated network devices as they see fit. The
	software is mainly focused towards Certified Cisco Network Associate
	Academy students as an educational tool for helping them learn fundamental
	CCNA concepts.
	Features of Cisco Packet Tracer
	Cisco Packet Tracer supports a multi-user system that allows many
	users to connect various topologies across a computer network.
	Instructors can also build exercises for students to perform using
	Packet Tracer.
	Supports feature expansion via additional programmes that use an API
	to improve Cisco Packet Tracer's capabilities in areas including
	curriculum and assessment delivery, gaming, accessibility, and
	interacting with real-world equipment.

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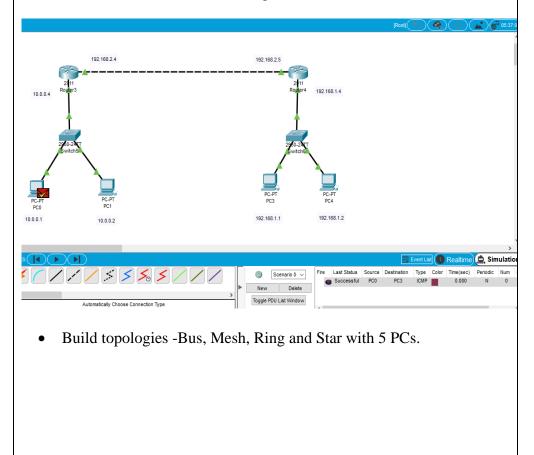
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- The Enhanced Physical Mode transports you to a virtual lab where you
 can simulate cabling devices on a rack. Refresh key skills such as
 device placement (Rack & Stack), on-device power switching, device
 port-to-port cabling (including cable selection and management),
 troubleshooting, and more.
- It can be downloaded for free through a Netacad account.
- It enables its users to simulate the configuration relating to the Cisco routers and can be accessed anywhere anytime.
- The Network Controller allows you a centralised dashboard to see the network's state, instantly discover and diagnose issues, and push configuration changes to all managed devices at once, whether you use its Web GUI or its APIs. You may also use real-world programmes on your computer to access the Network Controller and run your own infrastructure automation scripts.
- It can be accessed through unlimited devices.
- Provides an interactive and self-paced environment.

LAB EXERCISE

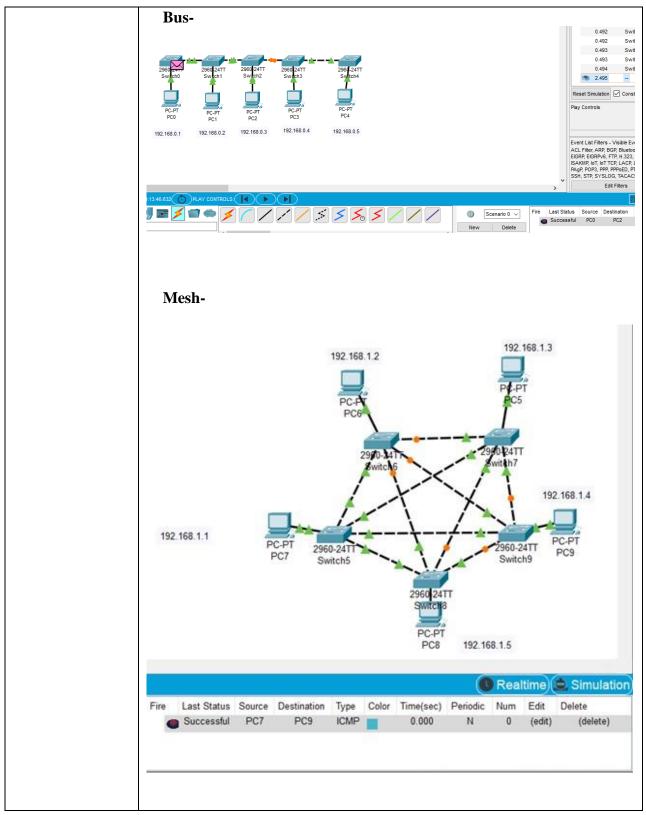
• Build a network scenario having 4PCs, 2 switches and 2 routers.



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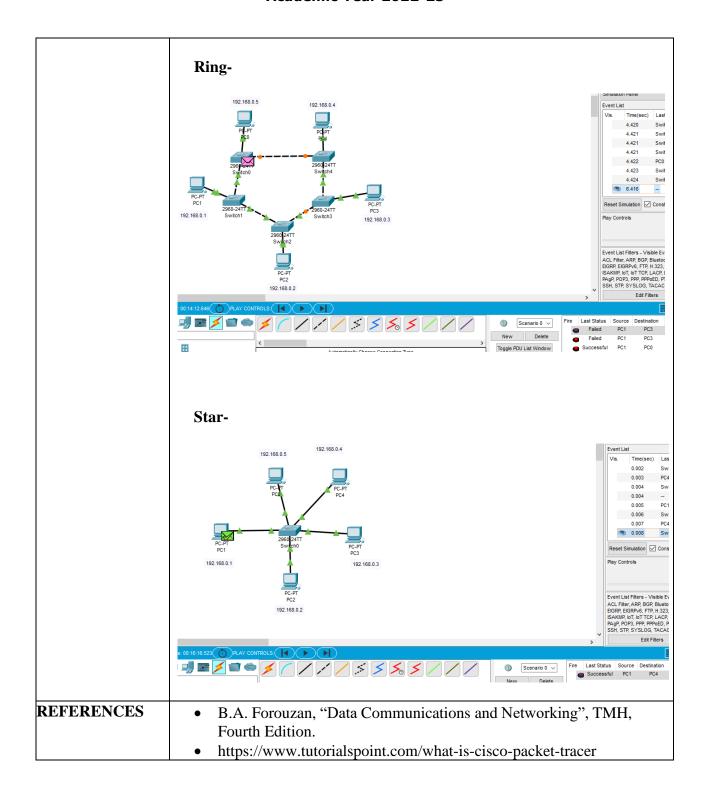
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