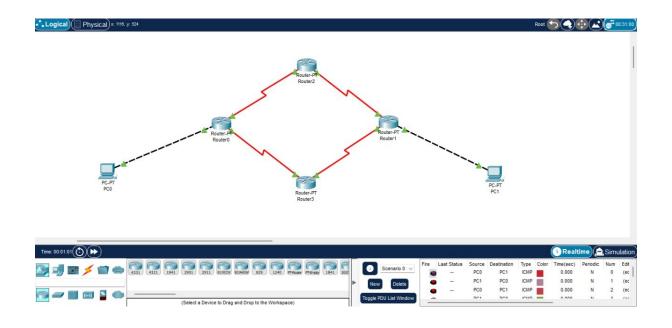
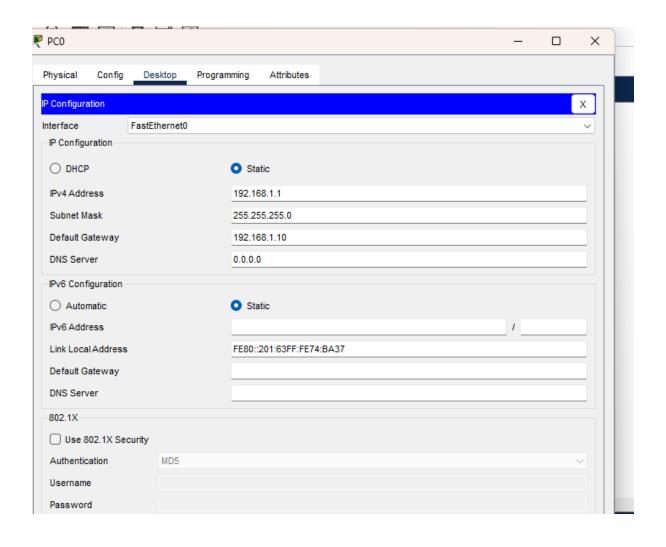
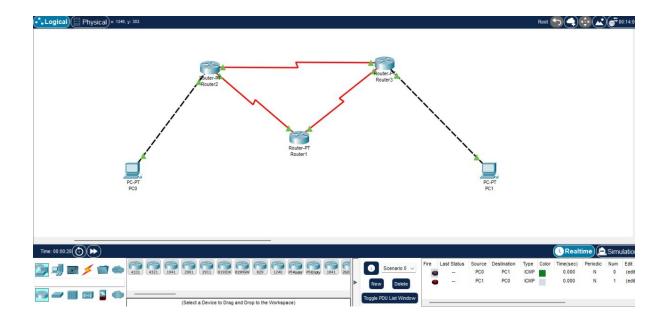
<u>Distance Vector Routing (DVR) protocol using</u> <u>Packet Tracker</u>

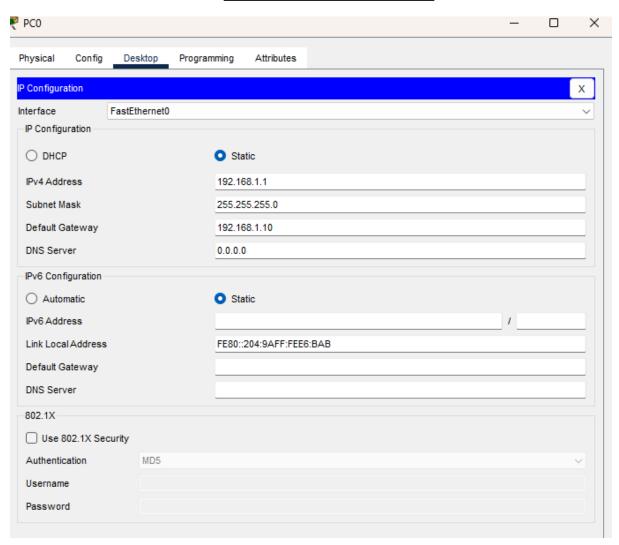


IP CONFIGURATION





IP CONFIGURATION



THEORY QUESTIONS

	EXPERIMENT- & Page No.		
***************************************	Explain the working of the distance vector rending protocol? It is a routing algorithm used in computer networks to determine the best path for data packets each router maintains a routing tuble that contains the distance (cost) and direction (next-top) to reach all network destination. Routers periodical exchange their routing with connected heighbours. They update their own table using the Belman-ford Higorithm, selecting the shortest path to each		
destination. 2 what is the significance of periodic opdates In DUR? > Periodic updates ensures that all evolutes are aware of network topology changes These updates help routers detect between broken links, new orouter, or changes in path costs However, excersive expedites can lead to ligh bandwidth consumption and slow			
	sours the Key differences between distance stor and dink- State Routing?		

		Date Page No.	
->	Distance vector inouting	link-state routing	
0	En the raiding table	Ink-state routing) Only link state information	
	should with neighbours.	is shared	
<u>u)</u>	Slower due to periodic	i) faster due to triggered	
	opdates	updates.	
	Computational overhead	in) Computational overhead is	
Charles Control of the Control of th	is law.	low.	
\v)	It is less scalable fue to	IV) It is more scalable for large networks.	
	high bandwidth usage.	large networks.	
(r) (ii)	What are the limitations of the DUR protocol, and how can they be mitigated? It takes time to adapt to network changes, coursing delays. Discorrect exortes may loop in definitely. Periodic updates consume excessive network resource Becomes inefficient in large networks due to frequency updates.		
	1		