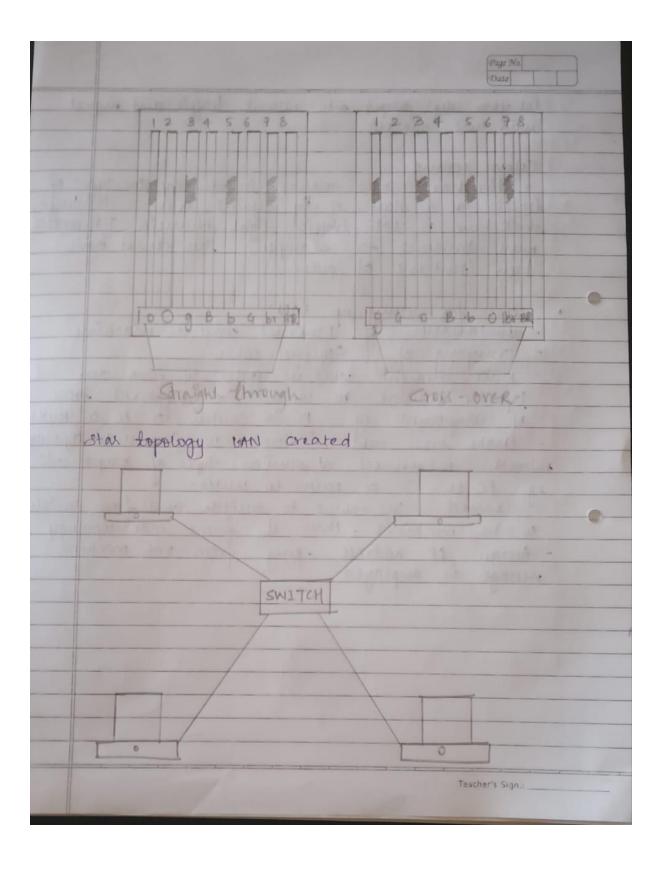
	Page Na
	(Date)
	Assignment-01.
*	Title: To setup a wired LAN using layer 2" switch be then IP switch of minimum your reomputers
*	Problem Statement: A) Setup a wired LAN using layer 2 switch he then I.P switch of minimus ofour computers It
	includes preparation of cable, testing of cable of using lime tester, configuration machine using 1P address, testing using PING utility &c idemonstration of PING packets captured traces using nireshark packet Analysis.
	B). Find the some axignment for wireless using access point.
*	Software Requirements: Swindows 10 OS, until is processor, Cisco packet Tracer, wireshark toof.
4	Types of LAN: A weal area network (LAN) is a computer network that interconnects computers within a limited area such as a residence, echool, laboratory miversity campus or office building and has its network equipment by interconnects locally managed.
	Teacher's Sign.:

Ethernet & wi-fi are the 2 most common transmission technologies in use Ethernet MN: Ethernet is the most popular physical layer IAN technology in use today. It defines the number of contintors that are required for a connection. A standard ethernet network can transmit data at a rate upto 10 megabits per second (10 Mbps) Other LAN types include Token Ring, Fast Etherno grigabit Ethernet, 10 gigabit Ethernet, Fiber Distribut ed Data Interface (ADDI). · Fast Ethernet: The fast Ethernet (standard SESE . 802 80) has been established for Ethernet networks that med higher transmission speeds. This dandand raises the themet; speed writ from 10 Mbps to 100 Mbps with only imminal changes to the oristing cable structure. o gigabit othernet It was developed to meet the need for forster communication networks with applications such as multimedia for voice over EP (NOEP). It is dyine in the SEFE 802 3 standard and is currently used as an enterprise backbone. 10 grabit Ethernet it is the fastest and most recent of the

Teacher's Sign.:

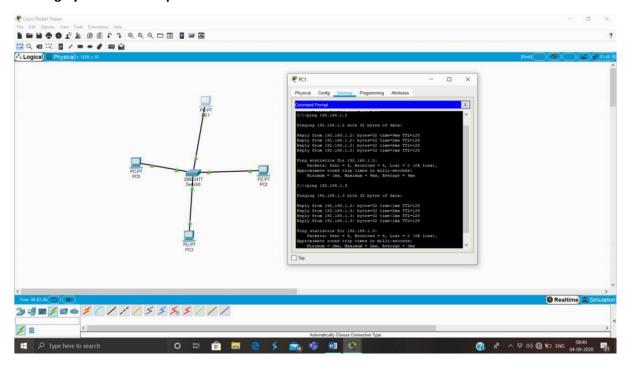
Page Na. Ethernet standards IEEE 202.3al defines a version of ethernet with a nominal rate lof 10 qbits/s Othat with makes It 10 times faster than gigabit ethernet IP Switching internet Protocol switching, for more commonly reffered to as IP switching. it a routing technique which routes data packets forther than traditional routing by moning layer-s switches. IP switching is performed by implementing layer-3 suitches with employ Application specific Integrated Circuit (ASIC) hardware & transferring rea Asynchronous Transfer mode (ATM) suitches cable Testing. Cable test instruments are designed with a narrety al focused features for particular field tacks They vary in price, performance and application Depending on the took, the field test distrument performs , A can be classified with one of three theorarchical groups: certification, qualification, or verification wireshark Packet Analyser Tool wireshark, a network analyser tool formally busin as ethereal, captures packets in real time and edesplays them in furnan readable format It included offlers, color coding and other features that

Teacher's Sign.

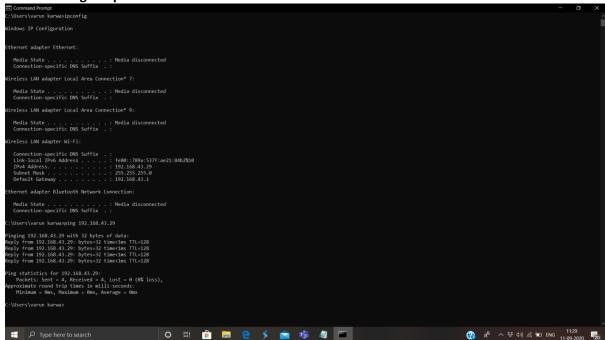


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#	Conclusion:
	conclusion: Thus we implemented a while the using layer a sowitch. We also implemented/understood the structure be working of various networks include airterconnecting starters used.
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	Teacher's Sign.:

Testing by PING and Output:



Wireless Ping Output:



WireShark Output:

