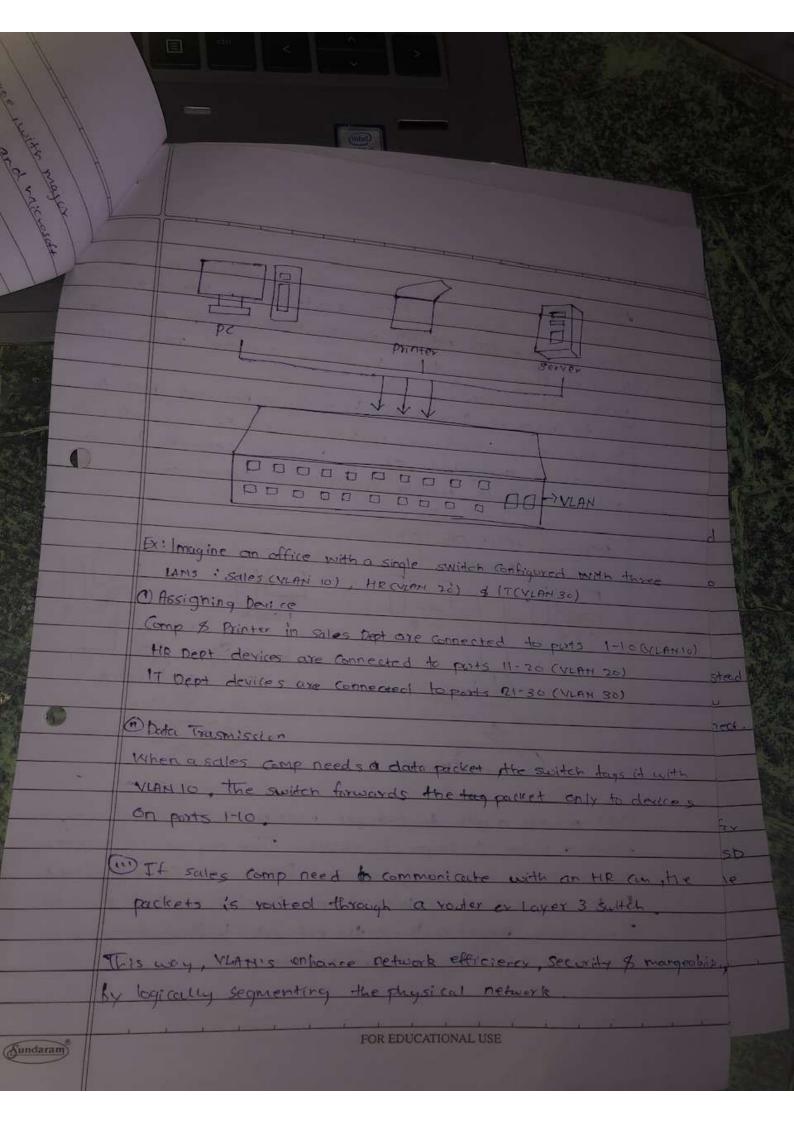
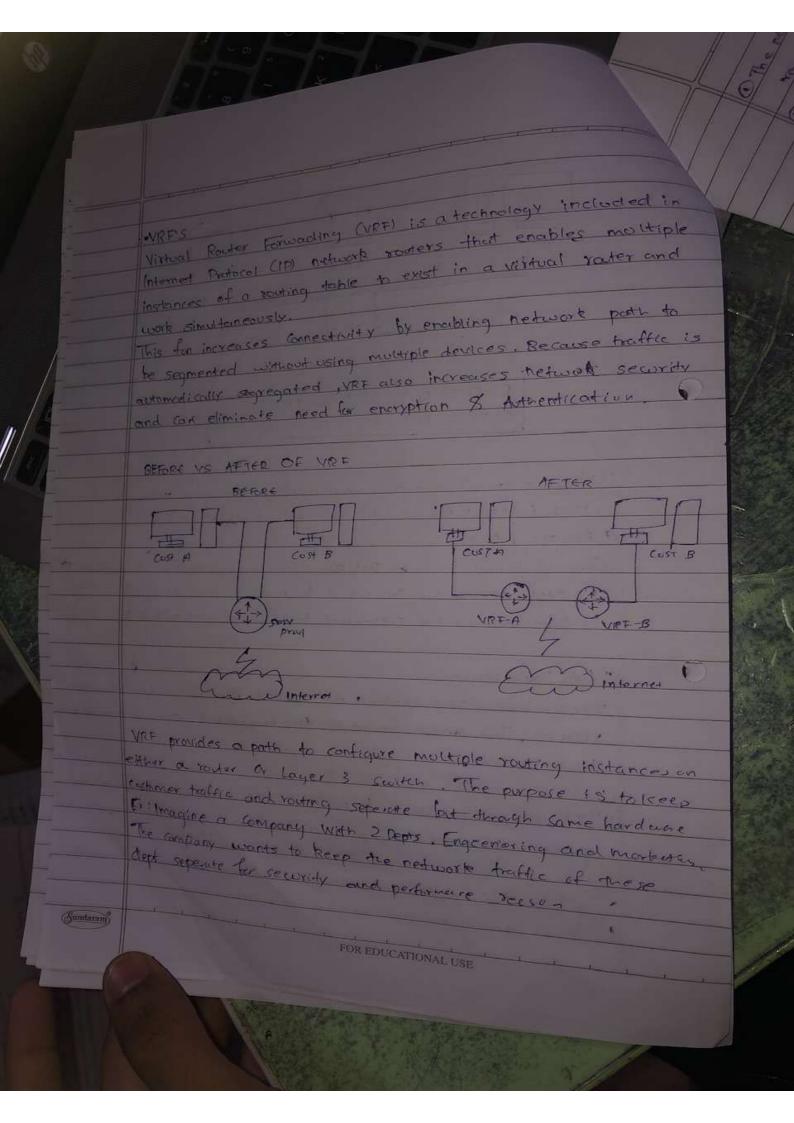


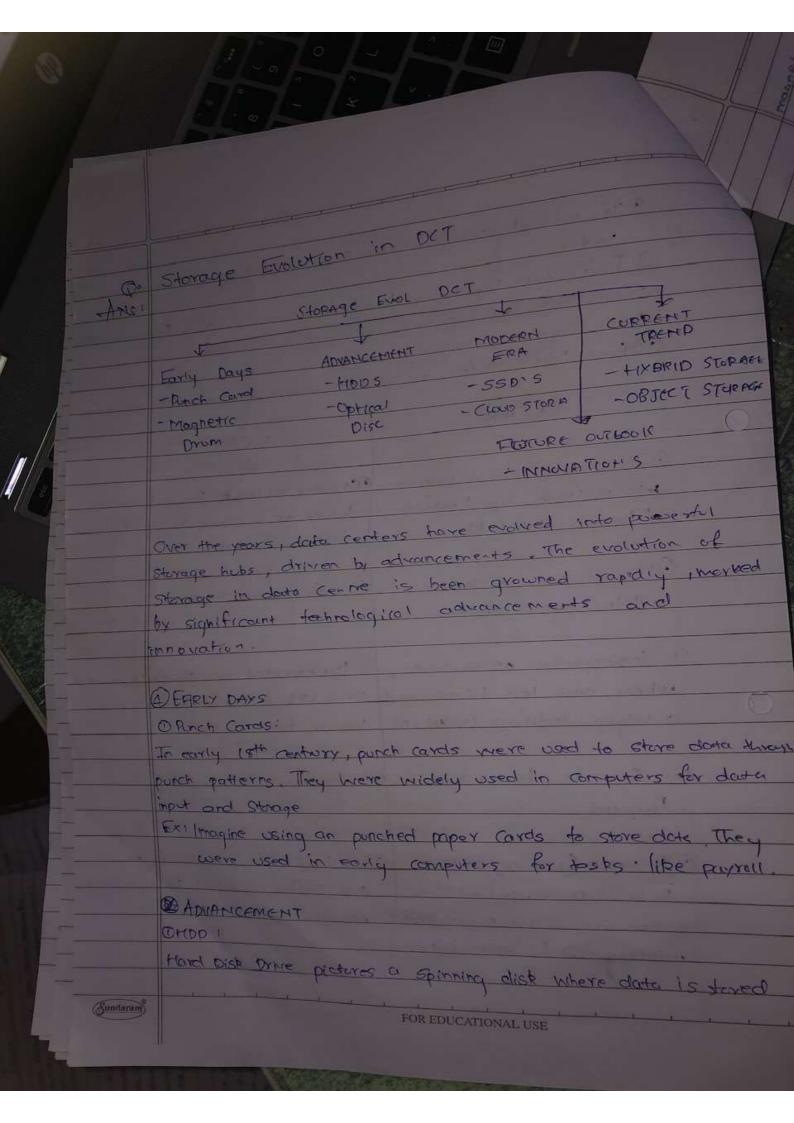
History of Data Centres. ANS: In 1946, the first data centre was created In 1940's the concept of dota Centre as we know them todo not yet exist. However, during this period early digital com were being developed, and there were efforts to craite controlled facilities to house these: machines and support their spexition The history of acts Centre began to written . 1950'5-60's : Early computing began in large main frame environment often dedicated rooms within co-operate or government buildings These systems were expensive and largety primarily used by large organizations. . 1970's: The advent of mini-computers and early networking lead to the need for more structured environments. Organizations started to design specialized space for sorver but they were still relatively small . 1980's: With the rise of personal computing and local area Network (LANS) dota centre grew in importance. Companies begin investing is there robest infrastructure, including dedicated cooling system . 1990's: The internet boom spurred the creation of larger clouds Centers, after referred ous "server forms", Companies like Abi and elsex expanded rapidly requiring more suphisticated facilities. · 2000's: Virtualization technology emerged allowing for more. efficient use of physical hardware. This decade also saw rise, where multiple businesses could shave data centre resources FOR EDUCATIONAL USE Sundaram

2010's: Cloud Comprising transformed the landscape with mayor providers like Amazon web Service (Aus), Google Goud and mice from Building massive, ecanable data conters. 2000's ! Edge Computing and All are shaping deta centre deagn, poshing for lower latency and greater officiency. 7 1956'5 - 1960'5 HISTORY 7 197015 - 1980's 7 1990'5\_ -> 200015 > 201015 -> 2020'S VLAN'S & YRF'S. 0 · VLAN'S. ANC. A VLAN is a logical grouping of networks resources connected to administratively defined parts. YLAN'S break a large broadcount domain into smaller proadcast domain. Fach VIAN creates an Separate broadcast domains. Alan is connected to a single Ethernet Hetwork. A broadcast message is message that beaches all devices in network. Devices the broadcast message to perform many essential tasks. The more devices you add to a network, the more broadcast may It will have Broadcast messages reduces network performance (Sundaram) FOR EDUCATIONAL USE





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	The network admin configures 2 YRF instance on company's		
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	Fach Dept's traffic is separate pensoring no Crossover interce		
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	1 Isolate network traffic Weith s	ime router	
	within some switch		
		ted	
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	itin they Vital	Complete separation	
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Sundaram		The second second second	



magnetically. These drives are like the ones in destrop ( Optical Disc A CD or DO Where data is stored in form of the pilson the disc servence to might would have used CD/DVD to 3 Modern ERA! 0550 Solid State Drive, which uses florsh memory, became pupular in 200015 due to its superior performance, lower latency and dester deta access speeds. Ex: Think of fast, silent storage in modern laptops , with no moving parts using flash memory @ Gard Storage Think of staving your photos and documents on internal instand of your computer. Services like Google Drive, or DropBox alow you to access your files from anxwhere with an internet connect. 4 CURRENT [REND: O Hybrid Storage Imagine Cambining 550 & HOD , SSO for speed & HOD for Capacity in an simple system. Bur computer might use SSD for operating system and performing tasks while HOD for Storing large Dute & Hies. FOR EDUCATIONAL USE Sundaram

Picture a system date that Sturiges dusta as an object, which irclude metadate and a unique identifier. This ideal of unstructured data like media files Ex 1 Awazon 53 . (1) Correct Trends France Outlook Organia Storaste! 5) Future outlook Innovations of Systamalbility Envision even faster storage technologies like HYMPE. Crown volatile Memory Express) , which provides high Speed data access our a PCIE interfice. Think about energy - efficient Storage Solution that will reduce power Consumption