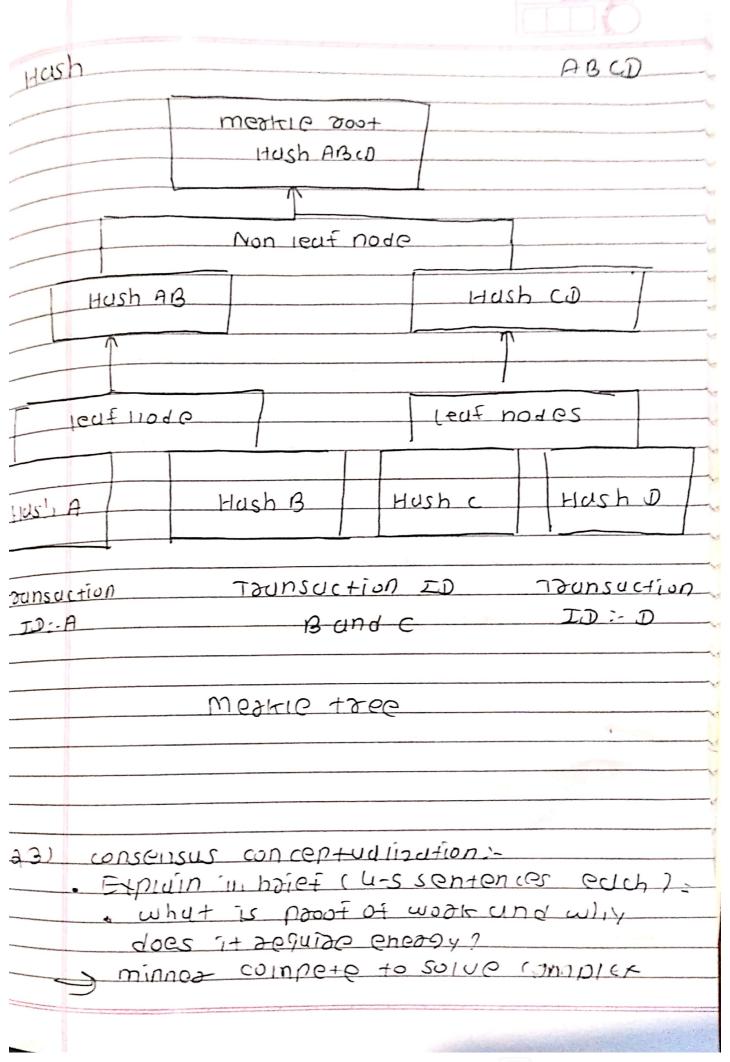
Mini Tusk 1: - Bui'd and explain simple Blocketing Theoretical part. a 1,1 Blockchain Busics 11 - Define blockchain in your own words 2). List 2 Deal-life use cases (e.g., supply chain, digital idetity) 1) · Blockchuin 1-- Blockchain is the underlying technology a decentralized and distributed ledger that record duta in a secure, immutable and tounsplusent way - DUZDOSP:-- Blockchair) can be used for a wine Justicity of application, not just coupto cubsency it is designed to security store and toursmit any kind of duta Scope 2-Blockchuin can be applied in numedous industries, such as supply clain mana emont healthruse itinunce, and Joting system exumi116 :-Hyperledger: is a blockechain foumwork for enterpoise solution that dosen't involve coylito cubaency

2) List 2 deal life use cases 1) Digital Identity challenges: - Touditional identity system use faugmented, insecuse and often involve buseaucoutic delays. induding citizens' identities, such us issuing to ob uerifying personul details, is time-consuming and poone to found Blockschuin solution 1-Blockchain enubles the creation of secure, tunner-resistant digital identities that citizens can use for various services Goviestiments can issue prochechain - hased In that use vasiables and accessing accoss multiple seguices (6-2 peartage bunking, society, security) Estonia, for example, hus implemented a blockchain-bused e-Residency paggain allowing people to securly establish their identity online. 2) Supply Chain Tourspacency - challenges :governments procure various good and Services and ensuring transparency in the sully chain is dificult leading

	copauption and inefficiencies.
	Blockchuin solution: Blockchuin provides real-time, tamper- resistant visibility into the supply chain Governments can track the origin, quality and movement of goods, from medical supplies to instruce, blockchain can help ensure that public funds are used appropriately by Providing an auditable trail of all transaction and product movements.
9.2	Block Andtomy Draw a block showing data, previous hash, timestamp, nonce, and merkie root
~- ~- ~-	in the chain, which fink the (ubsent block the previous one.
~	2) meakle Root:- The hush of all the taunsuction in the block, oddanized in the tage Staucture called the meature tage
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	3) Timees+ump =-

	The time when the block was coented
	4) Nonce: A rundom number used in pow system like Bitcoin to find a hash that meet certain criteria.
<u>/</u>	Block Hendes
	pactions block Hush: [Hush of pactions block] I meatile Root: Chush of all taunsuction] Timestamp: Cacution time of the block] Morice: Cauldom number of pow] Jeasion: Chickchain ucasion: Jifficulty Tuaget: Chifficulty Icuel]
	Block Body
	Toursaction 1: [details of toursaction 1]
	Turs 1 (+ for 1) = Cyetairs of tour suction N)

2) tist Briefly explain with an example how the mestile root helps unsiety duty 14-1603144 volidaty the data's intendity)-- It can be used to validate the duta's integait, effectively etticien+ resitication: The data toomat is efficient and Jezitying the datas integrity takes only a few moment medico 4200 work: A mestic tace adds up all of the todisaction in a block and coedites d unique digital fingeapaint of the Tull set of instauction allowing the usez to cheach whether the block contain d tadrisaction They are designed from the around up, with toursaction, zo as the toundation every non-leaf node hasher it pood ising has and every reat nod in the medicio tace tau suction deta. Hush A Hush B, Hush c, and Hush D:when these hushes are combined thry foom a 1 cw hush Has AB and Hush co:-Ad a sesult the ineapole goot is mule 411 of combining two Hash



	DATE
	complet muthemutical puzzle to add a new block to the blockchain e-g-, Bitcoin
2)	what is pos and flow does it differn what is pos and flow does it differn duridated are chosen to coedto new block based on the number of token they hold and are willing to state are collateral e-g ethereum 2.0)
3)	what is Delegated post of state and how use validation ase mall number of delegates who ase sespansible for validation today and coenting how block (e.g. tos)
.68	