\* Digital Signature & Hasting & & Briges deniscel Ital of Security in Blockchein & Cryptogeophy \* Rigital Egnoture & Hoshing 2 Higital Signature for = \* Mothematical Concept de authenticate Gorder of E-document. \* It is attechment to vary & document that \* Pairale for in accesible any to signor. \* SP+ is uned to generate Signature that is \* Public Key is available to all success. Public Ray Store in Diguodary Rublic Joly Emplie Kay Two of whice you Storese in p.C.

\* Application of Digital Signature 44 DE movil Dagta Storage B. E. fund tanfor Ø Software distribution & Smort ands Authenitication protoctor freversition.

Discontinge of Dystal Expronting to

Despired

Despired Daifficult to understood labour problems.

That takes imput 3trings

Mathematical demetion that takes imput 3trings
and largets and Convert output string of
fined largets. of Fined Value. output is Called. Hash Value. & It is Coypigraphically seeme one ineful. \* Peroperties of tech function it Determoniation of the function must be determinated any given input, a libids means four any given some nexult. D'Avalanche Effect in Small change in input toning, huge impact an outpat. & Fined length Mapping to length of Imput & Outlet

Application of Hoshing in Black choice & Deleting Romentable seconds

Telps in Solving Complex Morthemortical puzzale

Which shelp to add her block

Telps to Verify identity of upon in blockchain. \* Relation between toching over Digital Signatures \* Phe pureon of generality digital dignature have 2 & Ray Step to Ottoshing & Signing & Signing Information are Signed wring emique tack of fired. Yours. support in Colled. Hosh Value. of it is Copperfuely source are harful. Huspertica of toch function of Affector contribition of the function fruit he determinant helich funden dende give some sould Arredonate. Effect it single in days toings. In support toings -> mining transactions are validated degitally on bit coin network

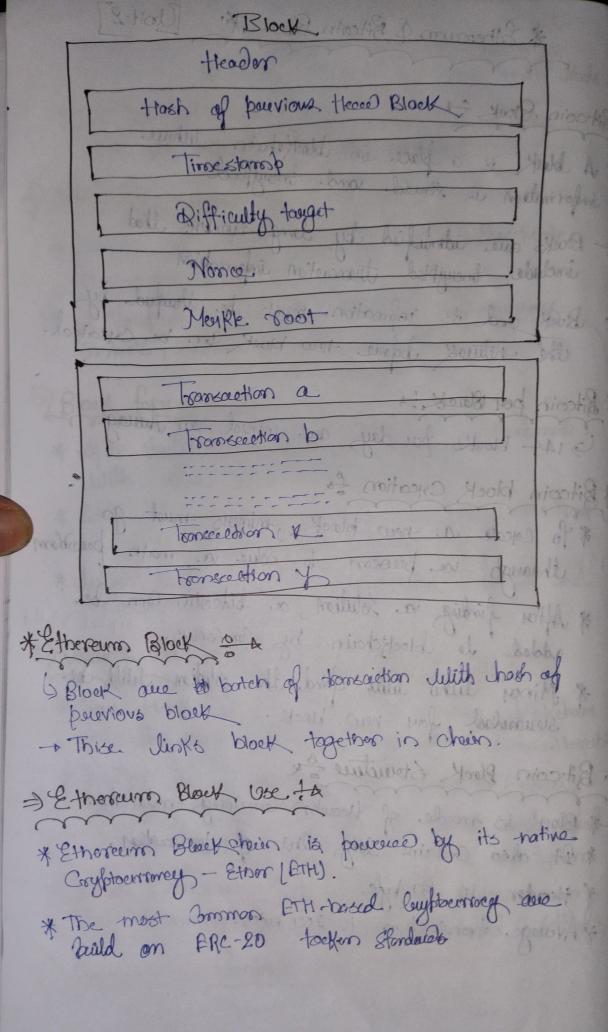
justings being the similar

- to the rest of the Network
  - Consider a Network og gaint block chain model
    - # every person who want to access data in the block chain are called minen
    - \* In a bitcoin data transformation each over mines into the block chain structure and altent your self-
      - \* The mining process is mainly distigned for bitcoin formation smucture
        - \* NOW, Bitcoin is made with Standard money maintaining with some proper data module.
        - of dollar, lupper, euros, Ohenams.
        - \* each currency will have some value to convert that dollar value to Bitcoin.
        - world we need mining processes
        - \* This mining is done in atmost security and least complexity.

## validations-

- -, Validation is a part like security mechanism
- of currancy modulations
  - -> validation acts as interface blw

\* Etherseum & Bitcoin Block \* [Unit-2] \*Bitcoin Block & Hours many working to work \* A block is a place in blockchain duhume information is stored rand Encupted & Blocks are identified by long numbers that include Encrypted transaction information It block and its imponation must be bounded by.
The network before hew block are be cycateal. \* Bitcoin per Blook : 4 5 144 blocks for days and mined on Aurage. \* Bitcoin block Cycation & \* Po capeate a new blook, mineurs ment go therough va. perseare to solve va morts : porodom. \* After finding va Solution, a bitcoin com be added to blockschein by Consumers. Mirroy letho still find the solution still be securedad for new book. 400kl strike worth Bitcoin Block Stoucture & \* Block is morde of treader Containing metadata. \* It also contraine long list of tronscellan, \* Header is 80 light \* Avelege. From See et on is 250 bytes.



\* Both in Ethereum blockchein and bitcoin block chain, there is Empedeed block time accord

In Ethercum it is 10 to 19 sumal.

\* New Ethercum block is Concortcood Every 14 second.

\* Ethercum is more fature freel than any protocol.

\* Block and its work !

\* Each block Stones purvious book, so its impossible to reverse and temper data.

\* Ethereum Stone Several Proportion data.