

Experiment-3.

- Aim / Overview of the practical:- Create a blockchain network with minimum of 6 blocks.
- Task to be done:- Creating blockchain network by adding block using simulation demo.
- Theory:- Blockchain consists of a list of records. Such records are stored constitute a chain that are linked with other records are called blockchain.
Blockchain is created as a chain of blocks where each of these block has some digital information. Each of the blockchain blocks has a unique 32-bit whole number called a nonce which is connected to a 256-bit hash number attached to it. The blocks are connected to each other using chain of a cryptography hash function, which link each block with previous block.
- Steps of the Experiment / Practical:-
For a distributed blockchain i.e. to perform & write name in each block for hash value of block visit <https://andreasbrownworth.com/blockchain/distributed>.
Step to create a blockchain:-
 - a) Click on the URL & visit <https://blockchaindemo.io>.
 - b) Create a block for the existing peer.
 - c) After adding new block continue the process of adding blocks.
 - d) After adding new block share peer by making new peer.
Connect a peer of that blockchain made to new peer:-
 - a) Create another peer, click on ADD peer button.
 - b) Select the new peer created.
 - c) Enter the data in the data field & click add new block.

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d) Add the block as per requirement.

e) Connect the newly created peer by clicking on the correct symbol.

Two or more peer of blockchain connected for one.

→ Output:-

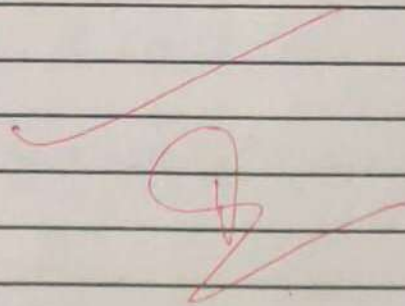
For distributed blockchain as figures, 6 blocks with data & containing the hash value.

→ Learning Outcomes:-

i) Understood the concept of distributed blockchain.

ii) Learned about how blocks are connected in blockchain technology.

iii) Understood concept of Hashing in blockchain.



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