DAY 1 ASSIGNMENT

1. **What is your understanding of blockchain ?**
2. Blockchain is a distributed database existing on multiple computers at the same time. It is constantly growing as new sets of recordings, or 'blocks', are added to it. Each block contains a timestamp and a link to the previous block, so they actually form a chain.

This is done by using several concepts from [cryptography](https://simple.wikipedia.org/wiki/Cryptography) including [digital signatures](https://simple.wikipedia.org/wiki/Digital_signature) and [hash functions](https://simple.wikipedia.org/wiki/Hash_function).

1. **What is the core problem blockchain trying to solve ?**
2. Internationl Bank crisis with the collapse of the investment in 2008. It came into the existence. The feature which the internet fails to provide like security and authenticity is provided by a blockchain.
3. **What are the few features which Blockchain will give you ?**
4. A mix of technology Which like- Distributed Database & Cryptography, some of the few feature given below.

* Verifiable
* Unchangeable
* Tamper- Proof
* Immutable

1. **What all things does a Block contains ?**
2. Each block contains, among other things, the current time, a record of some or all recent transactions, and a reference to the block that came immediately before it. It also contains an answer to a difficult-to-solve mathematical puzzle - the answer to which is unique to each block.

* Block Number
* Transaction records
* Previous Block Signature
* Mining Key

1. **How is the verifiability of Blockchain is been attained ?**
2. Verification in blockchain is a consensus mechanism based process. Since blockchain acts as a decentralized ledger with multiple nodes in the network, the transaction must be verified by all nodes. ... The transactions in a blockchain are referred to by their hash.