Assignment no 1:-

Q1) What is your understanding of blockchain?

Blockchain in simple language is chain of blocks where each block has some data and it’s own unique fingerprint i.e Cryptography.

There is record of every block on different peers i.e Distributed Database.

Hence, Blockchain is a mix of technology - Distributed Database and Cryptography.

Q2) What is the core problem blockchain trying to solve?

Blockchain is trying to solve problems with the Internet like:-

Authenticity

Security

Need of a powerful third party for trust.

Q3) What are the few features which Blockchain will give you?

Decentralisation

Security

Information is Immutable and unchangeable.

Information is Tamper-proof.

Q4) What all things does a block contain?

Block Number

Data

Previous Block Signature

Mining key

Q5) How is the verifiability of blockchain being attained?

There is a record of data in a block on different systems and everytime the data gets updated all systems check if their fingerprints are matching if there is a single system whose fingerprint is not matching then it is prompted to change its data.

Hence, the data is verified.