**Assignment 1**

Question 1: What is your understanding of Blockchain?

Blockchain is a secure way of transferring data from A to B in fully automated way involving two basic technologies distributed Database and cryptography. Combination of these gives verifiable, immutable and tamper-proof data.

Question 2: What is the core problem Blockchain trying to solve?

One of the core problems which Blockchain is trying to solve would be centralization. Blockchain brings in Decentralization which results in secure transactions.

Question 3: What are the few features which Blockchain will give you?

Blockchain with distributed database and cryptography give secure transactions where data is authenticated, immutable and hackproof.

Question 4: What all things does a Block contain?

A single block contains Block number, Transaction records (Data), Previous blocks signature (Hash code) and Mining key

Question 5: How is the verifiability of Blockchain has been attained?

Verifiability is achieved by using signatures which is hash code. Signatures change when there is change in data. This changed information is communicated and synced among blocks or computers.