Day 1 - Assignment  
  
1. What is your understanding of Blockchain  
Ans: Blockchain is a decentralized distributed ledger that consist of chained blocks of records. It consist of immutable, tamper resistant and permanent records in chronological order. Blockchain gives huge security boost to the system. Data transparency can also be achieved. It can be used in many fields where the copy of the data is to be maintained regularly and so that if there is a change of data or hacking occurred in one node, then the data can be collected from other nodes and the hacked node can be recovered easily.  
  
2. What is the core problem, blockchain trying to solve?  
Ans: The core problem that the blockchain trying to solve is International banking crisis that occurred in 2008, there are various other problems too that can be solved with the help of blockchain such as, double spending problem, transparent supply chain management, third party can be eliminated completely. Authenticity and security issues with the internet can also be solved with blockchain.  
  
3. Few features of Blockchain  
Ans: Decentralized, Distributed Ledger, Immutable, Security, Cryptography, Tamper proof, Verifiable, Unchangeable, Transparent and Secure.

4. What does a block contain?  
Ans: Block number, Records (Data), Previous Hash Key, Mining Key.  
  
5. How is the verifiability of blockchain is been achieved?  
The same copy of data is stored distributive across many devices of the network and thus if the data is changed in one node, that can be identified by all other nodes of the network. So the verifiability of the blockchain is achieved.