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**Day 1 Assignment (Blockchain Essentials) (18/7/2020)**

**Question 1:**

What is your understanding of Blockchain?

**Answer:**

* I think, Basically Blockchain is the mixture of the several technologies. It’s a mixture of Distributed Database and Cryptography.
* **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.

**Question 2:**

What is the core problem Blockchain trying to solve?

**Answer:**

* Blockchain addresses the problem of data loss due to hardware or connectivity issues.
* Blockchain addresses the problem of data corruption due to intermittent hardware or connectivity issues.
* Blockchain addresses the problem of data security and trust by making the ledger public.

**Question 3:**

What are the few features which Blockchain will give you?

**Answer:**

* Cannot be Corrupted
* Decentralized Technology
* Enhanced Security
* Distributed Ledgers
* Consensus
* Faster Settlement

**Question 4:**

What all things does a Block contain?

**Answer:**

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

**Question 5:**

How is the verifiability of Blockchain has been attained?

**Answer:**

* The verifiability of blockchain can be achieved by the fingerprint of the block which is generated by the combination of data and the previous-block fingerprint, which is stored in the distributed systems.
* Example :   
  fingerprint (0) + Data1 = fingerprint (1)

fingerprint (1) + Data2 = fingerprint (2)