# Day 1 Assignment

Letsupgrade Blockchain Assignment

### 1) What is your Understanding of Blockchain?

Ans: A blockchain is similar to a chain of blocks where the data is divided and stored into blocks are these blocks are interlinked to and also several copies of this blocks exist. This is a type of peer to peer based computing. In other words, blockchain a ledger of facts. It helps one achieve verifiability,data transparency, data integrity and decentralisation.

### 2) What is the core problem that the Blockchain is trying to solve?

Ans: The core problems that blockchain is trying to solve are:

- i) Security
- ii) Verifiabilty
- iii) Authenticity

## 3) What are the few features that blockchain will give you?

#### Ans:

- i) Verifiablility
- ii) Tamper Proof
- iii) Decentralisation
- iv) Immutable

### 4) What all things does blockchain contains?

### Ans:

- i) The block number
- ii) Transaction records (data or content)
- iii) Signature of the previous block (SHA-256)
- iv) Mining key

## 5) How is verifiability of blockchain is been attained?

Ans: 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.

### Ex:-

```
Fingerprint(0) + Genesis Block = Fingerprint 1
Fingerprint 1 + Block_Data_2 = Fingerprint 2
Fingerprint 2 + Block_Data_3 = Fingerprint 3
Fingerprint 3 + Block_Data_4 = Fingerprint 4 and so on..
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