Day 1 Assignment:  
  
1. What is your understanding of Blockchain?

Ans – Blockchain is a chain of blocks that holds transactional records while ensuring transparency,security and decentralisation which is controlled by no single authority. It is a kind of distributed ledger that is completely open to everyone in a network.

2. What is the core problem blockchain trying to solve?  
Ans: There are 3 core problems:  
a) Authenticity – There should be proper authenticity by the person whoever is doing any kind of stuff.  
b) Security - No one could update or make any changes in the transaction or any record.  
c) Need of third party trust – For ex,,You can trust on Flipkart or Amazon that they will provide you good delivery on time,,,but you can’t trust on the person who deliver your product.

3. What are the few features which blockchain will give u?  
Ans – Some features of Blockchain are :-

* **Immutability and tamper detection** - Data stored in the blockchain is made secure and immutable using cryptography.
* **Decentralisation** – As there is no central point of control, decentralised systems are more difficult to attack or manipulate.
* **Data protection** – Your data could be there in multiple devices. In case from one device data is missing or deleted,,your data is still protected as it is distributed.

4. What all things does a Block Contain?  
Ans - A Block contains –

* Block Number
* Transaction Record
* Previous Block Signature
* Mining Key

5. How is the verifiability of Block-chain can be attained ?

Ans - The verifiability of Blockchain can be attained by –

~ First/Genesis block + New Data – FingerPrint 1

~ FingerPrint 1 + Current Data – FingerPrint 2

~ FingerPrint 2 + Current Data – FingerPrint 3 and so on…

* There are 3 types of Blockchain –

1. **Public Blockchain –** In this, all people are pulled their resources to network and it is like an open to all community. Anybody can contribute and there is no governing body there.

For ex – **Bitcoin, Ethereum.**

1. **Private Blockchain –** In this, a single governing body taking care of all the resources.

For ex – **R3 Corda.**

1. **Consortium Blockchain -** In this, a group of private companies governs the whole blockchain network to store the data securely.

For ex – **Hyperledger**

1. **Blog application (PI-18)**
2. **Chit chat (Pi -7)**
3. **News Classifier(PI -6)**
4. **Face Attendance System (PI-9)**
5. **Diab Check (PI-8)**
6. **Book reader(Pi-16)**

* Bitcoin Mining – Solving complex mathematical problems.

1 Satoshi = 0.00000001 BTC

* **MetaMask** is a browser extension that allows web applications to interact with the Ethereum blockchain. For users, it works as an Ethereum wallet, allowing them to store and send any standard Ethereum-compatible tokens (so-called ERC-20 tokens).

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