

# Blockchain Essentials

## Assignment DAY 1:

### **Q1. What is our understanding of the Block Chain?**

- A mix of technology i.e. Distributed Database and Cryptography where information is verifiable, unchangeable, tamper-proof and immutable.
- Making a copy of same document at different places is known as Distributed Data Base.
- Converting the whole data in digital Signature is known as Cryptography.
- Block Chain is all about huge amount of data storing in different places.

### **Q2. What is the core problem block chain trying to solve?**

- It is trying to solve authenticity problems, security and need of powerful third party for trust.

### **Q3. What are few features that Block Chain gives you?**

- Features are :
  1. Verifiable
  2. Unchangeable
  3. Tamper-proof
  4. Immutable.

### **Q4. What all things does a Block Chain contains?**

- A Block contains :
  1. Block Number
  2. Transaction record
  3. Previous Block Signature
  4. Mining Key

**Q5. How is the verifiability of block chain is been attained?**

- Lets take an example, all of us has to complete the assignment and questions are uploaded on LetsUpgrade community.
- That assignment we have to download and store in our laptops.
- Then we will create a new digital signature of that document like Pervious fingerprint + Data = Current Fingerprint.
- Then send the current fingerprint to community to check everyone is having same fingerprint or not.
- If any of the person does not match the fingerprint then that person need to replace the data with others.
- This is how the verifiability attained.