**ASSIGNMENT 1**

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1.What is your understanding of Blockchain?

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* To put it in simple terms - “**Blockchain**” is just a bunch (Collection) of **blocks** that are **chained** (linked)together using **Cryptography** (An Encrypting Methodology).
* Each Block holds transactional details (Confidential data), it acts as a container to hold information.



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2. What is the Core problem Blockchain is trying to solve?

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It addresses the following problems :

* **Data Integrity** : The information remains complete, accurate, and reliable.
* **Authenticity** : Protects against critical cyber attacks such as phishing, man-in-the-middle, replay attacks etc.
* **Data Security** : Ensures that your data is encrypted.
* **Centralization issues** : Doesn’t rely on a single central server making it immune to data crashing.
* **Trust** : Develops trust among its members.

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3.What are the few features that Blockchain will give us?

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Some of the features that Blockchain provides u are :

* **Immutability** : Resistant to data modification
* **Decentralisation** : Has a decentralised server
* **Distributed Ledger** : Every node has its own server
* **Data Transparency** : Is visible to everyone
* **Hack Proof** : Is very safe and secure

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4. What all things does a Block contain ?

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5. How is the verifiability of Blockchain has been attained ?

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It attains verifiability by following a set of procedures which addresses all the four common concerns of a public peer-to-peer network ( Confidentiality, Integrity, Non-Repudiation, Authenticity ) making it very immune to hacking and data breaching.

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**BLOCKCHAIN PPT LINK :**

[**https://docs.google.com/presentation/d/10LMZjkMrZ6bY8Npgg-kx2Mqsd4WzMSb8c5UwSGFVIhA/edit#slide=id.g8c2df278c3\_0\_0**](https://docs.google.com/presentation/d/10LMZjkMrZ6bY8Npgg-kx2Mqsd4WzMSb8c5UwSGFVIhA/edit#slide=id.g8c2df278c3_0_0)