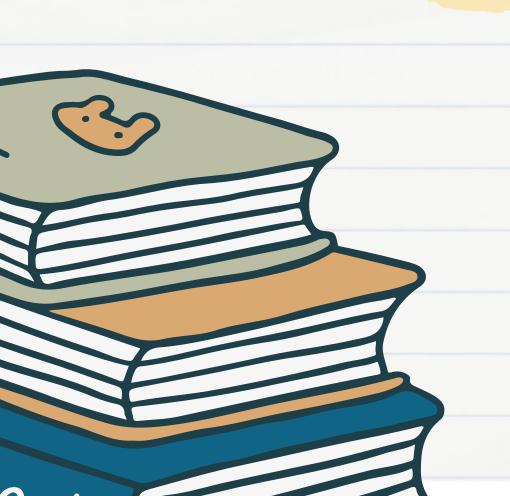


## Blockchain

# Assignment

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Roll no: 25

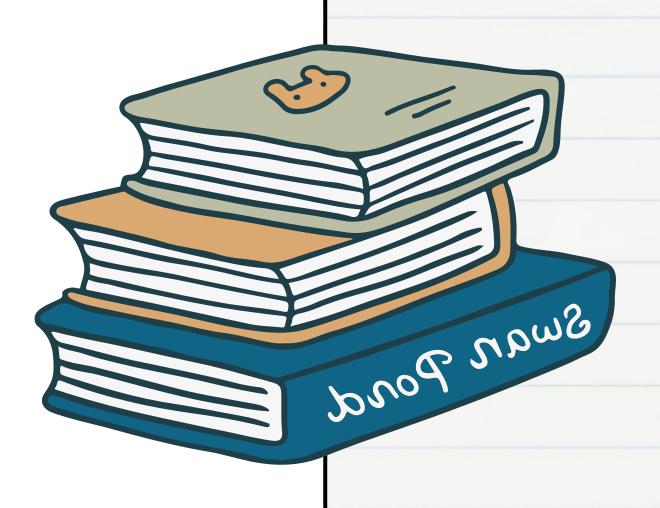


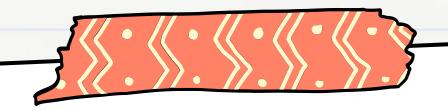


### Blockchain

- Introduction
- Definition
- Key points
- Advantage
- disadvantage





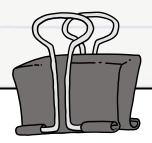


### Introduction

#### Block-chain introduction:

• Blockchain is a revolutionary technology that underpins digital currencies like Bitcoin, but its applications extend far beyond cryptocurrencies. At its core, blockchain is a distributed ledger system that securely records transactions across a network of computers, making it nearly impossible to alter or tamper with the recorded data.





### Definition



#### **Technical Definition:**

• **Blockchain** is a chain of blocks, where each block contains a set of transactions or data. These blocks are linked together using cryptographic hashes, ensuring that once data is recorded, it is immutable (cannot be changed or deleted). Each block contains a timestamp, a reference to the previous block (through a hash), and transaction data, forming a secure and transparent record..



#### **Business Definition:**

• **Blockchain** is a technology that enables the creation of a secure and transparent digital ledger for transactions. It is particularly valuable for industries like finance, supply chain, and healthcare, where trust, security, and transparency are critical. Blockchain can streamline processes, reduce costs, and eliminate the need for intermediaries..



#### **Cryptocurrency Definition:**

• **Blockchain** is the underlying technology behind cryptocurrencies like Bitcoin and Ethereum. It ensures that digital currencies can be transferred directly between parties without the need for a central authority like a bank



### **Key points**



#### **Decentralization**

Unlike traditional systems
that rely on a central
authority (like banks or
governments), blockchain
operates on a decentralized
network of computers
(nodes)





#### **Immutability**

Once a transaction is recorded in a block and added to the blockchain, it cannot be altered or deleted.



#### Security

Blockchain uses
cryptographic techniques
to secure data and
transactions. Each block
is linked to the previous



All transactions on a blockchain are visible to anyone with access to the blockchain



#### **Smart Contracts**

Smart contracts are self-executing contracts with the terms of the agreement directly written into code.



#### **Distributed Ledger**

The blockchain is a distributed ledger, meaning that every participant (or node) in the network has a copy of the entire blockchain..





### Advantage

**Decentralization:** No central authority

needed.

**Transparency:** All transactions are

visible.

**Security:** Highly secure and tamper-

proof.

Efficiency: Faster, automated

processes.

**Cost Reduction:** Lower transaction

costs.

#### Disadvantage

**Scalability Issues:** Limited

transaction speed.

**Energy Consumption:** High

power usage.

Complexity: Difficult to

understand and implement.

**Regulatory Uncertainty:** 

Unclear legal frameworks.



## Thank's For

Attention -GANESH AGRAHARI

