BLOCKCHAIN

Seminar

Let start

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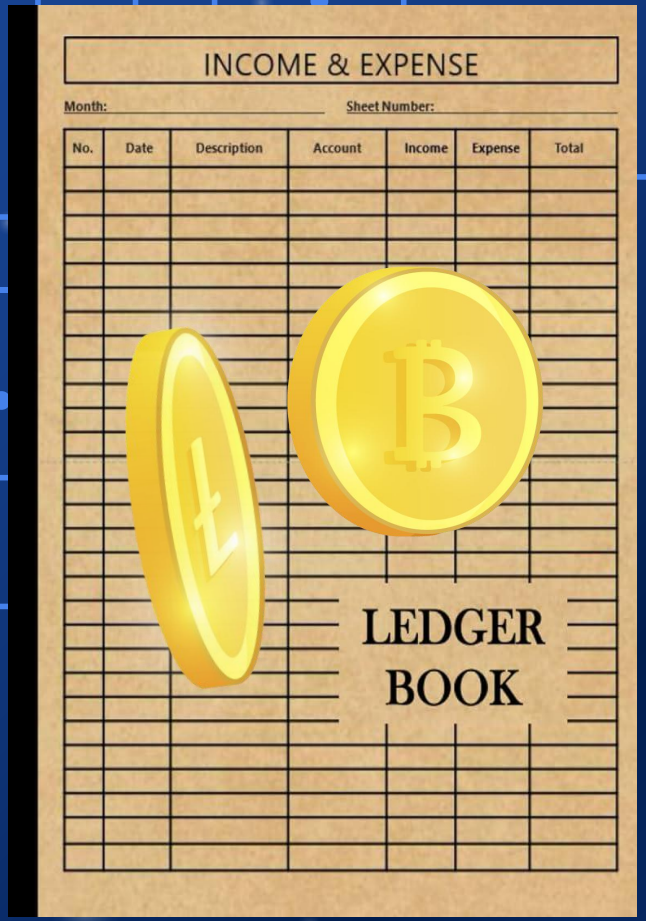
What is Blockchain

BLOCK
CHAIN

Whoa!

BLOCK ????? CHAIN?????

Bitcoin????



Introduction

- A distributed ledger technology
- Securely stores digital records
- Transparent and tamper-proof
- Decentralized network (no single authority)

How Does Blockchain Work?

- Transactions are bundled into blocks
- Blocks are cryptographically linked (chained)
- Miners validate and add blocks to the chain
- Consensus mechanism ensures network agreement

Benefits of Blockchain

- **Enhanced security**: Tamper-proof data
- **Transparency**: All participants have access
- **Decentralization**: No central point of failure
- **Efficiency**: Streamlined processes
- **Trustless environment**: Eliminates intermediaries

Applications of Blockchain

Financial Services

Secure and efficient transactions (cryptocurrencies)

Supply Chain Management

Tracking goods from origin to destination

Voting Systems

Secure and transparent voting process

Applications of Blockchain

Healthcare

Secure medical records management

Identity Management

Decentralized and tamper-proof identities

Challenges of Blockchain

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Scalability

Handling a large volume of transactions

Challenges of Blockchain

Regulation

Uncertainty around legal frameworks

Challenges of Blockchain

Energy Consumption

High computational power required for mining

Challenges of Blockchain

Security Concerns

Potential vulnerabilities in smart contracts

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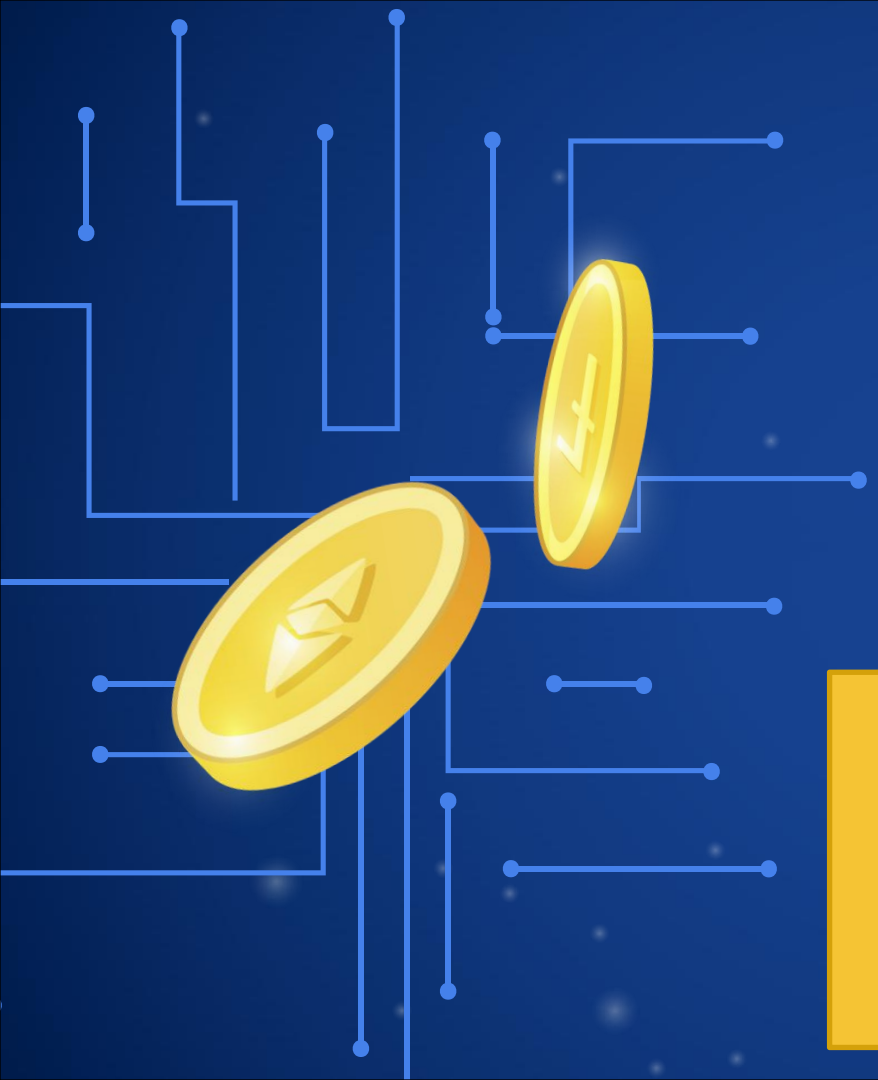
The Future of Blockchain

- Continued development and innovation

- Potential to disrupt various industries



Thanks!

Do you have any questions?

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