SNS COLLEGE OF ENGINEERING

Kurumbapalayam (Po), Coimbatore – 641 107

AN AUTONOMOUS INSTITUTION

AICTE and Accredited by NAAC – UGC with 'A' Grade
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

19SB603- TYPES OF DLT

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DISTRIBUTED LEDGER TECHNOLOGY

Distributed Ledger Technology (DLT) refers to a decentralized system for recording and managing transactions across multiple nodes or participants. Unlike traditional centralized databases, DLT ensures that all participants have a synchronized and tamper-resistant copy of the ledger.

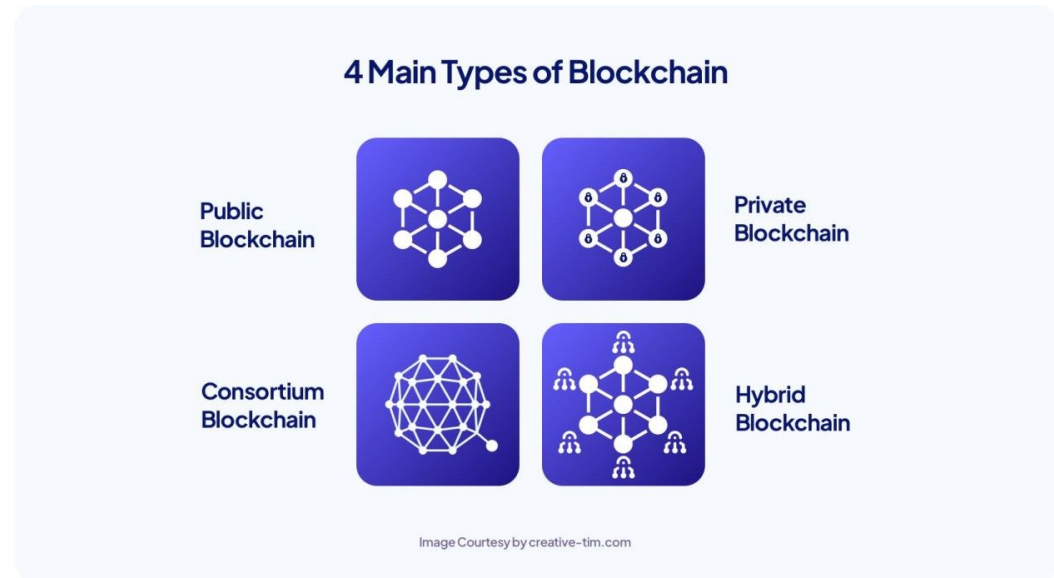**L.Mubarali /19SB603 -DISTRIBUTED LEDGER TECHNOLOGY**
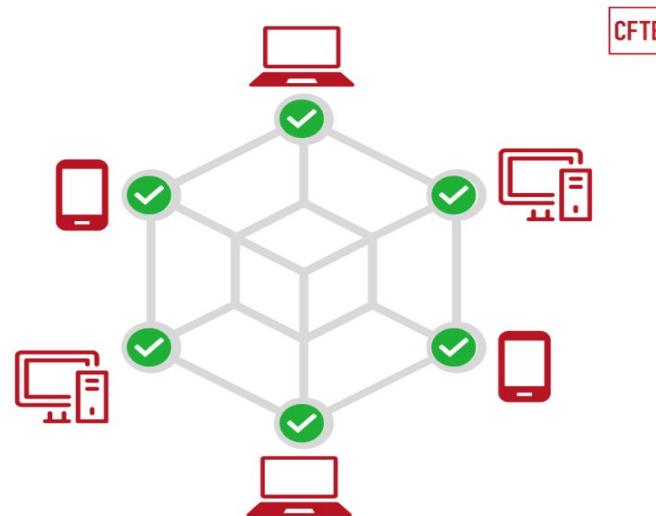
Introduction to DLT Types

DLT is categorized based on access and control mechanisms.

Main types:

1. **Public**
2. **Private**
3. **Consortium**
4. **Hybrid Ledgers**.

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Public Ledger

- Fully decentralized and open to everyone.

- Transactions are transparent and immutable.

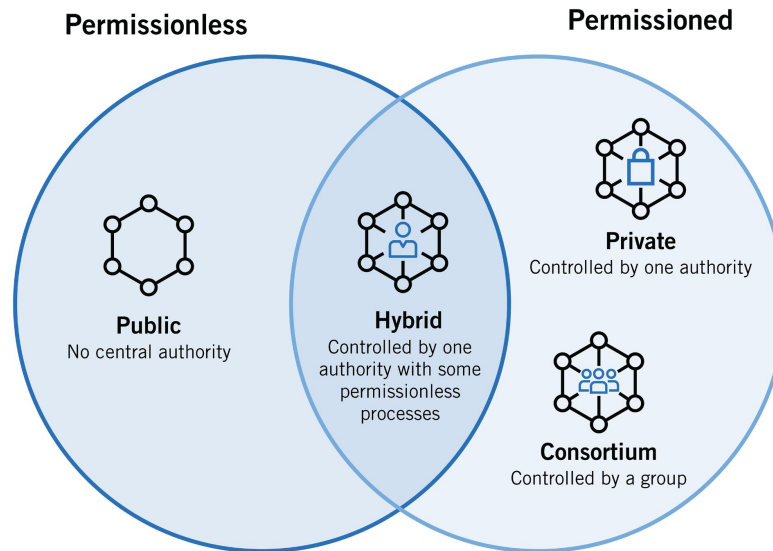- Example: **Bitcoin, Ethereum**.

Bitcoin
(BTC)

vs

Ethereum
(ETH)

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Private Ledger

- Restricted access, controlled by a single entity.

- Faster and more efficient than public ledgers.

- Example: **Hyperledger Fabric.**

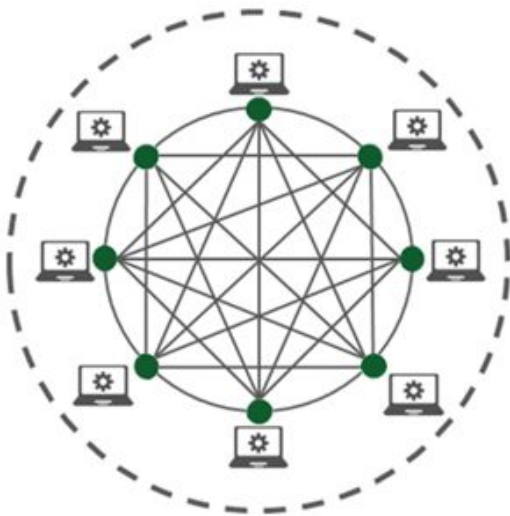**L.Mubarali /19SB603 -DISTRIBUTED LEDGER TECHNOLOGY**

Consortium Ledger

- Partially decentralized, controlled by multiple trusted entities.

- Balances transparency and privacy.
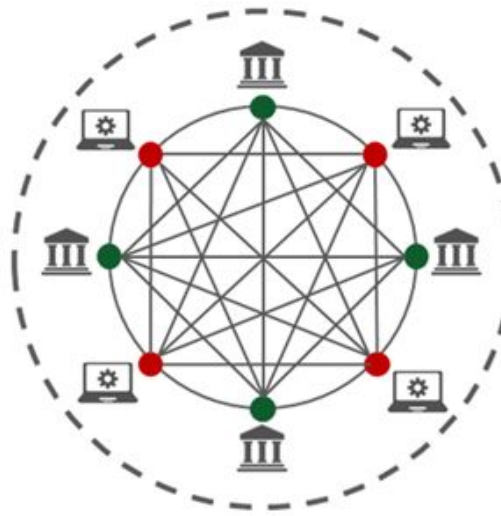
- Example: **R3 Corda, Quorum**.

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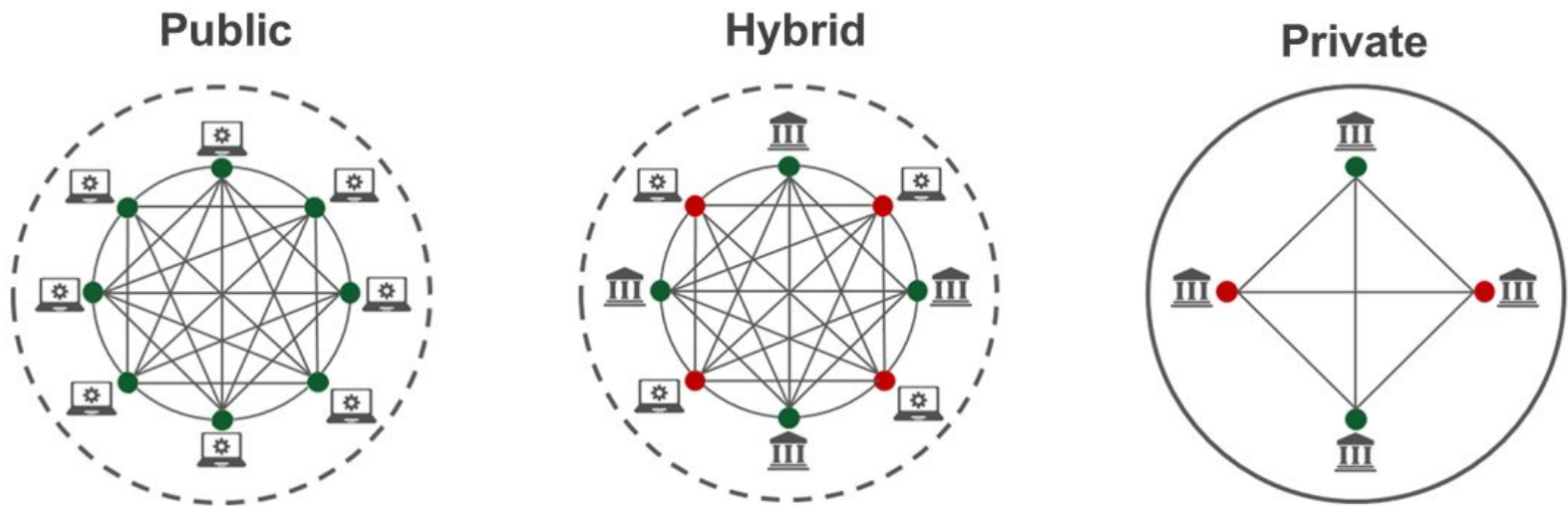
Hybrid Ledger

- Combines features of public and private ledgers.
- Selective transparency with controlled access.
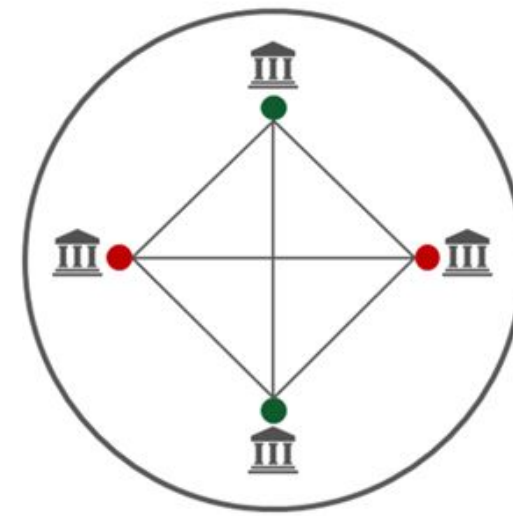- Example: **Dragonchain**, **XinFin**.

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