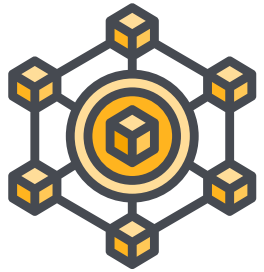
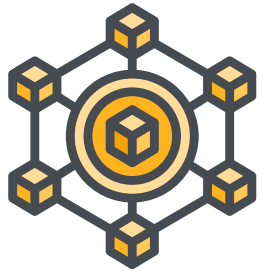
💡 What is Solidity?



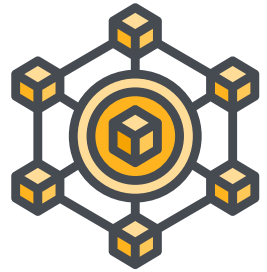
- Solidity is a high-level, object-oriented programming language used to write smart contracts on blockchain platforms (mainly Ethereum).
- It is inspired by languages like JavaScript, Python, and C++, so it’s familiar to web developers.
- Solidity code is compiled into EVM (Ethereum Virtual Machine) bytecode, which runs on the blockchain.
- It enables developers to define rules, logic, and behavior of decentralized applications (DApps).

⚙️ Why Do We Use Solidity?



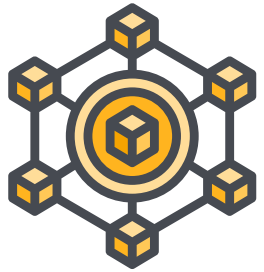
- Allows creation of self-executing smart contracts without needing intermediaries.
- Ensures transparency, trust, and automation in digital agreements.
- Helps build decentralized applications (DApps) such as DeFi, NFTs, DAOs, and gaming platforms.
- Enables secure fund management and programmable logic for tokens, voting systems, crowdfunding, etc.
- Solidity is the core development language for Ethereum-based ecosystems.

📜 What are Smart Contracts?



- Digital agreements written in code that automatically execute when certain conditions are met.
- They eliminate the need for third parties. The blockchain itself enforces the rules.
- Once deployed, they are immutable (cannot be changed) and transparent (anyone can verify).
- Smart contracts handle logic such as payments, ownership transfers, or voting securely on-chain.
- Sending ETH to an address when a product is delivered handled automatically by the smart contract.

🚀 Solidity Demand in Blockchain



- Highly demand
- Top companies, startups, and DAOs are continuously hiring Solidity developers.
- Solidity skills are well-paid.
- As blockchain adoption grows globally, Solidity remains the foundation language of Ethereum and compatible blockchains (like Polygon, Binance Smart Chain, Avalanche, etc.).