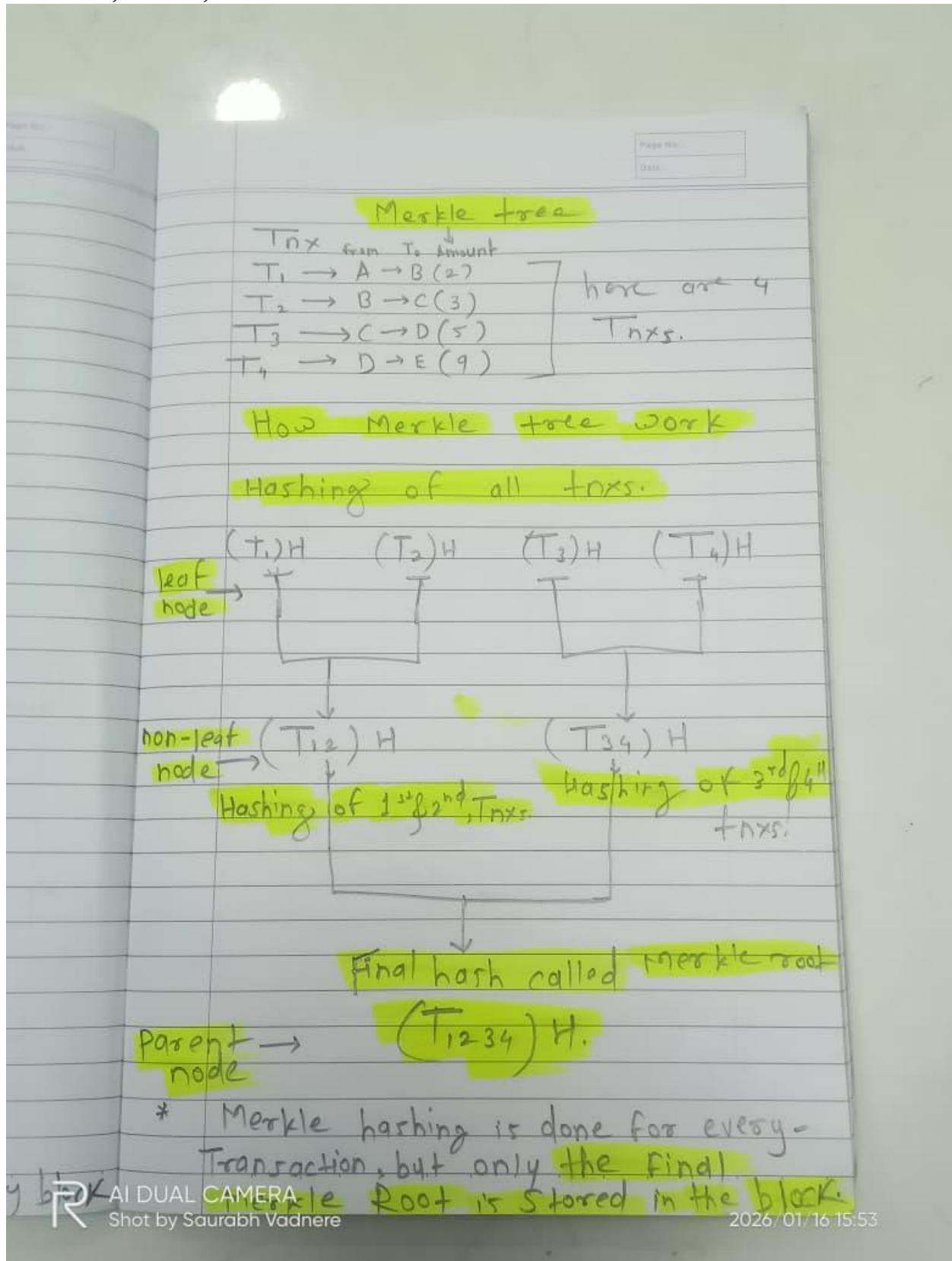


# Merkle Tree (also called Hash Tree)

Merkle tree also known as hash tree is a data structure used for data **verification** and **synchronization**. used to securely verify large amounts of data. It is heavily used in Blockchain, Bitcoin, Ethereum



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Bitcoin Block 932,489

Mined on January 16, 2026 02:21:34 • All Blocks

Unknown

Coinbase Message •

A total of 4,506.75 BTC (\$431,594,792) were sent in the block with the average transaction being 1.4321 BTC (\$137,146). Unknown earned a total reward of 3.13 BTC \$299,748. The reward consisted of a base reward of 3.13 BTC \$299,748 with an additional 0.0267 BTC (\$2,556.96) reward paid as fees of the 3,147 transactions which were included in the block.

Details	
Hash	00000-d355a
Capacity	146.46%
Distance	54m 16s
BTC	4,506.7483
Value	\$431,594,792
Value Today	\$431,012,249
Average Value	1.4320776366 BTC
Median Value	0.00517582 BTC
Input Value	4,506.78 BTC
Depth	484d2aeee1943b83abf4fe6eda6f
Size	e7fd750468082dff2f742a5a9c4b3
Version	afb0b9
Merkle Root	48-b9
Difficulty	146,472,570,619,930.78
Nonce	1,865,890,288
Bits	386,001,906
Weight	3,993,670 WU
Minted	3.13 BTC

The Merkle Root is stored **inside the block header**.

The block does NOT store all transaction hashes, only:

- Merkle Root
  - Previous Block Hash
  - Timestamp, nonce, etc.

Purpose	Benefit
Per-transaction hashing	Detects if <b>any single transaction</b> changes
Merkle Root in block	Saves <b>huge storage space</b>
Verification	Allows <b>fast proof (Merkle Proof)</b>