



Centurion
UNIVERSITY
*Shaping Lives...
Empowering Communities...*

School: Campus:

Academic Year: Subject Name: Subject Code:

Semester: Program: Branch: Specialization:

Date:

Applied and Action Learning

(Learning by Doing and Discovery)

Name of the Experiment : Know Your TX – Dissecting a Transaction

* Coding Phase: Pseudo Code / Flow Chart / Algorithm

ALGORITHM:

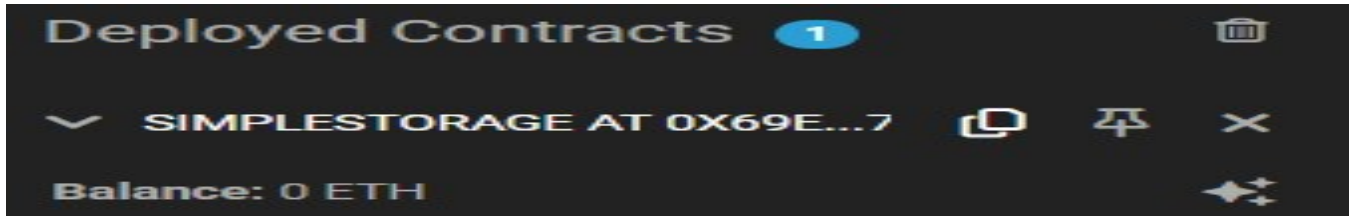
- 1.Start
- 2.Open a blockchain explorer website like <https://etherscan.io>.
- 3.Get a transaction hash (TX Hash) from MetaMask or Remix after deploying a smart contract or sending ETH.
- 4.Paste the TX Hash into the search bar of the explorer.
- 5.Analyze the transaction details, including:
 - From and To addresses
 - Gas used and Gas price
 - Block number
 - Timestamp
 - Nonce
 - Status (Success/Failed)
- 6.Observe how each parameter reflects transaction flow on the blockchain.
- 7.Check the value transferred (if any) and input data (for contract interactions).
- 8.Understand that every transaction is permanent and traceable.
- 9.Learn how miners validate transactions and include them in blocks.
- 10.End

* Software Used:

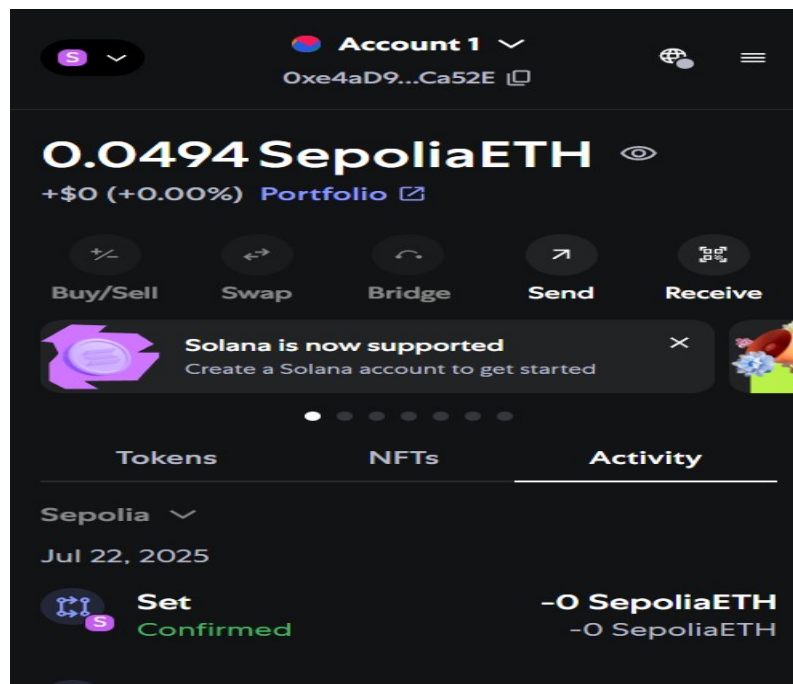
- 1.MetaMask Wallet
- 2.Etherscan-<https://etherscan.io>.
- 3.Brave Browser

* Implementation Phase: Final Output (no error)

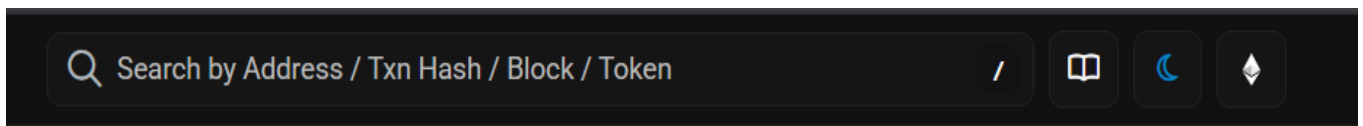
First go to your Remix IDE and in deploy & run Transaction section you can find a deploy contract section in this section copy the Wallet address



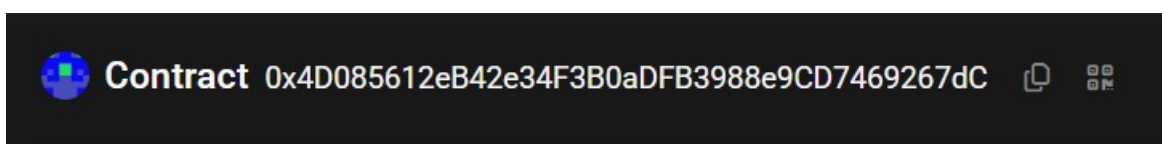
Or ,you can go to your Meta Mask wallet and copy the wallet address to check the dissection of the transactions



After copy the Wallet address now go to the website Etherscan.io and in this website you can find out a search button now paste the wallet address



After search the wallet now we can see all the details of our transactions Like: transaction hash,status ,block number ,Nonce etc and we can se in left top corner we can see our contract number



* Implementation Phase: Final Output (no error)

The screenshot shows the Etherscan Sepolia Testnet interface. At the top, there's a search bar and navigation links. The main header displays 'Contract' and the address '0x4D085612eB42e34F3B0aDFB3988e9CD7469267dC'. Below this, there are three tabs: 'Overview', 'More Info', and 'Multichain Info'. The 'Overview' tab is active, showing 'ETH BALANCE' as '0 ETH'. The 'More Info' tab shows 'CONTRACT CREATOR' as '0xe4aD95Dd...68E8Ca52E' with a link to their profile. The 'Multichain Info' tab is currently empty. Below the tabs, there's a 'Transactions' section with a table of transactions. The table has columns for Transaction Hash, Method, Block, Age, From, To, Amount, and Txn Fee. A single transaction is listed with hash '0x388254d773...', method 'Set', block '8816895', age '49 secs ago', from '0xe4aD95Dd...68E8Ca52E', to '0x4D085612...7469267dC', amount '0 ETH', and fee '0.00004059'. There are also links for 'Download Page Data' and 'Download: CSV Export'.

Now click on the Transaction Hash number for more details

The screenshot shows the transaction details page for the transaction hash '0x388254d773dc24899074d4aecefa54d88b4ae6a6aba9e02fb6124c79fb14d4af'. A red warning message at the top states '[This is a Sepolia Testnet transaction only]'. The transaction details are as follows:

- Transaction Hash:** 0x388254d773dc24899074d4aecefa54d88b4ae6a6aba9e02fb6124c79fb14d4af
- Status:** Success
- Block:** 8816895 (608 Block Confirmations)
- Timestamp:** 2 hrs ago (Jul-22-2025 09:31:00 AM UTC)
- From:** 0xe4aD95DdeB8a2C5cC1646171850841668E8Ca52E
- To:** 0x4D085612eB42e34F3B0aDFB3988e9CD7469267dC
- Value:** 0 ETH
- Transaction Fee:** 0.000040592127388608 ETH
- Gas Price:** 1.523957328 Gwei (0.000000001523957328 ETH)

After click the hash we can see all details like Transaction Hash, Status, Block number, Timestamp, The transaction record from and to, and value of ethereum, Transaction fee, gas price etc

here we can see the status is showing success

Gas Limit & Usage by Txn: 26,980 | 26,636 (98.72%)

Gas Fees: Base: 0.023957328 Gwei | Max: 1.534273474 Gwei | Max Priority: 1.5 Gwei

Burnt & Txn Savings Fees:

- Burnt: 0.000000638127388608 ETH (\$0.00)
- Txn Savings: 0.000000274780864856 ETH (\$0.00)

Other Attributes:

- Txn Type: 2 (EIP-1559)
- Nonce: 1
- Position In Block: 21

Input Data:

```
Function: set(uint256 x) ***  
  
MethodID: 0x60fe47b1  
[0]: 0000000000000000000000000000000000000000000000000000000000000000159
```

View Input As ▾ Decode Input Data View In Decoder

More Details: — Click to show less

Observation:

1. Each blockchain transaction has a unique Transaction Hash (TX Hash) used to track and verify it on the blockchain.
2. Important details like sender address, receiver address, gas used, block number, and status are publicly visible and transparent.
3. Transactions are immutable and once confirmed, they are permanently stored in the blockchain ledger.

ASSESSMENT

| Rubrics | Full Mark | Marks Obtained | Remarks |
|--|-----------|----------------|---------|
| Concept | 10 | | |
| Planning and Execution/ Practical Simulation/ Programming | 10 | | |
| Result and Interpretation | 10 | | |
| Record of Applied and Action Learning | 10 | | |
| Viva | 10 | | |
| Total | 50 | | |

Signature of the Student:

Name :

Regn. No. :

Signature of the Faculty:

Page No.....

***As applicable according to the experiment.
Two sheets per experiment (10-20) to be used.**