



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: Explore the Chain – Using a Blockchain Explorer

***Coding Phase: Pseudo Code / Flow Chart / Algorithm**

1. Open a web browser
2. Navigate to a blockchain explorer I.e <https://etherscan.io> for Ethereum
3. Choose the type of data to explore:
 - a. Block
 - b. Transaction
 - c. Wallet Address
 - d. Smart Contract (for Ethereum-based chains)
4. For exploring a transaction we need to enter the transaction hash (TxID) in the search bar and retrieve transaction details:
 - Sender and receiver addresses
 - Amount transferred
 - Fees/gas used
 - Status (Success/Failed/Pending)
5. We can analyze the retrieved data based on our observation goals.

*** Software used:**

Web Browser : To access online blockchain explorers.

Internet Connection : Required to load blockchain explorer websites and interact with real-time blockchain data.

Blockchain Explorers: Ethereum: <https://etherscan.io>

*** Testing Phase: Compilation of Code (error detection)**

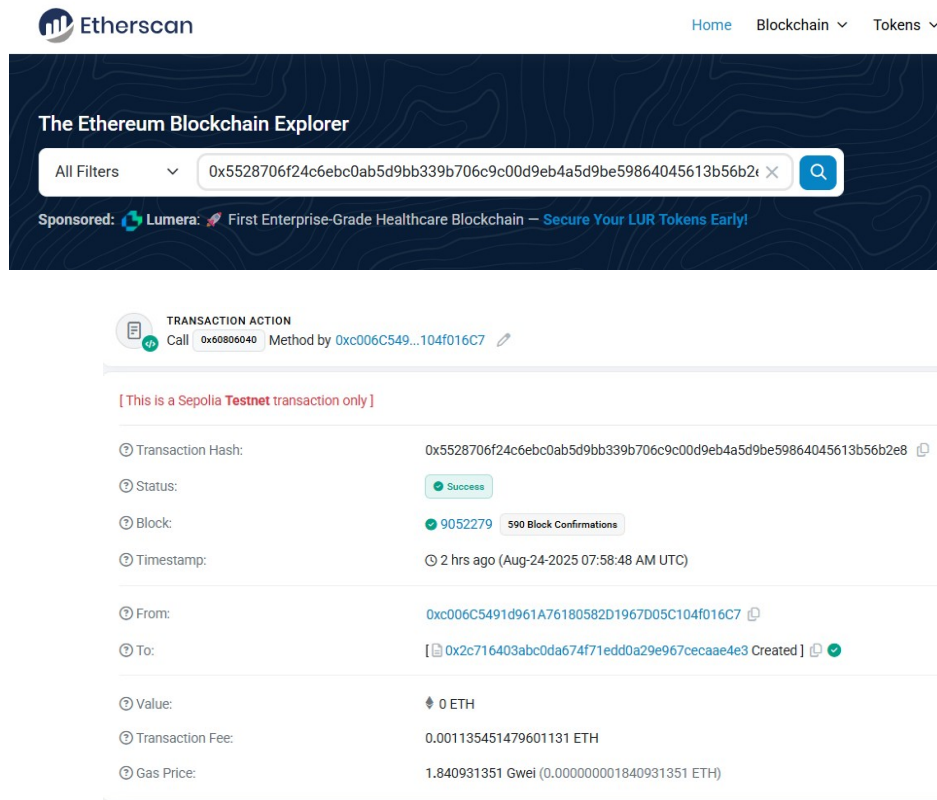
NO ERROR

Page No.....

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

* Implementation Phase: Final Output (no error)

- First navigate to ethereum block chain explorer (I.e <https://etherscan.io>)
- Then in the search bar enter the transaction hash (Txn Hash)
- After entering the Txn Hash we will get all the information regarding the transaction like Status,Block,Timestamp,Sender address,Receiver address,Value,Transaction fee, Gas price, Input data ,etc.



The screenshot displays the Etherscan website interface. At the top, the Etherscan logo is on the left, and navigation links for 'Home', 'Blockchain', and 'Tokens' are on the right. Below the header is a search bar with the text 'The Ethereum Blockchain Explorer'. The search bar contains the transaction hash '0x5528706f24c6ebc0ab5d9bb339b706c9c00d9eb4a5d9be59864045613b56b2e8' and a search icon. Below the search bar, there is a sponsored banner for 'Lumera: First Enterprise-Grade Healthcare Blockchain'. The main content area shows the transaction details for the entered hash. It includes a 'TRANSACTION ACTION' section with a 'Call' icon and the address '0x60806040'. Below this, a red warning message states '[This is a Sepolia Testnet transaction only]'. The transaction details are listed in a table-like format:

Transaction Hash:	0x5528706f24c6ebc0ab5d9bb339b706c9c00d9eb4a5d9be59864045613b56b2e8
Status:	Success
Block:	9052279 590 Block Confirmations
Timestamp:	2 hrs ago (Aug-24-2025 07:58:48 AM UTC)
From:	0xc006C5491d961A76180582D1967D05C104f016C7
To:	[0x2c716403abc0da674f71edd0a29e967cecaae4e3 Created]
Value:	0 ETH
Transaction Fee:	0.001135451479601131 ETH
Gas Price:	1.840931351 Gwei (0.000000001840931351 ETH)

* Observation :

From this experiment we observed:

- Transaction Hash (TxID) : A unique identifier for the transaction on the blockchain used to search and verify the transaction details.
- Sender and Receiver Addresses
- The value of cryptocurrency or tokens sent in the transaction.
- The cost paid to process the transaction on the network.
- Transaction Status whether the transaction was Success, Failed, or Pending.
- Timestamp : The exact date and time when the transaction was included in a block.
- Block Number : The block in which the transaction was recorded.

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.....

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