



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 shows the Etherscan interface. At the top, there's a navigation bar with 'Home', 'Blockchain', and 'Tokens'. Below it is a search bar containing the transaction hash '0x5528706f24c6ebc0ab5d9bb339b706c9c00d9eb4a5d9be59864045613b56b2e'. A sponsored banner for Lumera is visible. The main content area displays a transaction action card with the following details:

TRANSACTION ACTION	
Call	0x60806040 Method by 0xc006C549...104f016C7
[This is a Sepolia Testnet transaction only]	
② Transaction Hash:	0x5528706f24c6ebc0ab5d9bb339b706c9c00d9eb4a5d9be59864045613b56b2e8
② Status:	Success
② Block:	9052279 590 Block Confirmations
② Timestamp:	2 hrs ago (Aug-24-2025 07:58:48 AM UTC)
② From:	0xc006C5491d961A76180582D1967D05C104f016C7
② To:	[0x2c716403abc0da674f71edd0a29e967cecaae4e3 Created]
② Value:	0 ETH
② Transaction Fee:	0.001135451479601131 ETH
② Gas Price:	1.840931351 Gwei (0.00000001840931351 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 :

Signature of the Faculty :

Regn. No. :

Page No.....

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