



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

- Open any blockchain explorer (e.g., Etherscan for Ethereum).
- Enter a transaction hash, block number, or wallet address in the search bar.
- Observe details like:
 - Block number
 - Timestamp
 - Transaction hash
 - Gas fee
 - Sender and receiver addresses
 - Amount transferred
- Explore recent blocks and transactions on the homepage.
- Note the confirmations and network statisti

* Software used:

- **Tool: Blockchain Explorer (e.g., Etherscan)**
- **Browser: Google Chrome**
- **Operating System: Windows**

* Testing Phase: Compilation of Code (error detection)

NO ERROR

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

* Implementation Phase: Final Output (no error)

- Opened the blockchain explorer website (Etherscan).
- Searched for a valid transaction hash.
- Transaction details such as sender, receiver, and value were displayed.
- Verified block number, timestamp, and gas fee.
- Output displayed successfully without any error.

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 with the transaction hash '0x5528706f24c6ebc0ab5d9bb339b706c9c00d9eb4a5d9be59864045613b56b2e' and a search icon. A banner for 'Lumera' is visible. The main content area is titled 'TRANSACTION ACTION' and shows a 'Call' entry. It includes fields for 'From' (0xc006C5491d961A76180582D1967D05C104f016C7) and 'To' (0x2c716403abc0da674f71edd0a29e967cecaae4e3). Other details include: Status (Success), Block (9052279, 590 Block Confirmations), Timestamp (2 hrs ago, Aug-24-2025 07:58:48 AM UTC), Value (0 ETH), Transaction Fee (0.001135451479601131 ETH), and Gas Price (1.840931351 Gwei (0.000000001840931351 ETH)).

* Observation :

From this experiment we observed:

- The blockchain explorer displayed all transaction and block details clearly.
- Each transaction had a unique hash and timestamp.
- Sender and receiver wallet addresses were visible but anonymous.
- Gas fee and transaction status were shown accurately.
- The explorer updated data in real time without any error.

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. :

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