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.

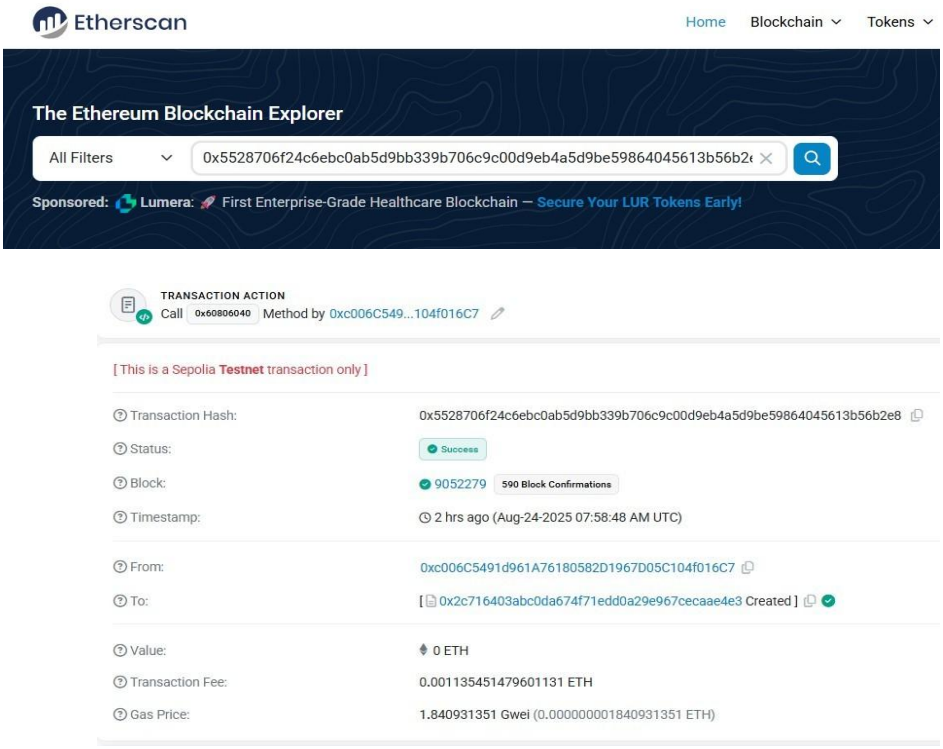
Blockchain Explorers: Ethereum: https://etherscan.io

* Testing Phase: Compilation of Code (error detection)

NO ERROR

* 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.



* 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. :

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