



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 :

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

ALGORITHM:

1. Open blockchain explorer for Bitcoin
2. Locate search bar on the explorer.
3. Enter transaction hash (TXID) and view details.
4. Note transaction info – sender, receiver, amount, fee, block number, status.
5. Enter wallet address and view its balance and transaction history.
6. Click block number to explore block details – hash, miner, transactions, timestamp.
7. Open smart contract address to view code and functions.

* **Softwares used**

- 1.Brave Web Browser
- 2.Blockchain Explorer Website

Page No.....

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

* Implementation Phase: Final Output (no error)

First open the bitcoin explorer- <https://www.blockchain.com/explorer>

The Ethereum Blockchain Explorer homepage displays the following key metrics:

- ETHER PRICE:** \$4,759.39 @ 0.039085 BTC (+1.38%)
- MARKET CAP:** \$574,498,183,439.00
- TRANSACTIONS:** 2,940.98 M (20.3 TPS)
- MED GAS PRICE:** 0.812 Gwei (\$0.08)
- LAST FINALIZED BLOCK:** 23138578
- LAST SAFE BLOCK:** 23138610
- TRANSACTION HISTORY IN 14 DAYS:** A line chart showing transaction volume over time, with a peak around July 30.

Below the main stats, there are sections for **Latest Blocks** and **Latest Transactions**, each with a table of recent activity.

Then is search bar you can search with address, TXID and Token name

The search bar contains the transaction hash: **0xDAFe4DfDDA3E39e0580D206BcFB59b93cAECCb81**.

After searching will able to see the all details about the transaction like hash,timestamp,status,block number,value ,gas price etc.

The transaction details page for address **0xDAFe4DfDDA3E39e0580D206BcFB59b93cAECCb81** includes the following sections:

- Overview:** ETH BALANCE: 0.605345079886568967 ETH; TOKEN HOLDINGS: \$0.00 (10 Tokens).
- More Info:** TRANSACTIONS SENT: Latest: 2 days ago, First: 98 days ago; FUNDED BY: 0x993a0f36...63293adD9 (100 days ago).
- Multichain Info:** N/A
- Transactions:** A table showing the latest 25 transactions from a total of 54. The table includes columns for Transaction Hash, Method, Block, Age, From, To, Amount, and Txn Fee.

Transaction Hash	Method	Block	Age	From	To	Amount	Txn Fee
0xa2a5b95794f...	Approve	9507601	2 days ago	0xDAFe4DfD...3cAECCb81	OUT	0 ETH	0.0000402
0x06e8983f67c...	Transfer	9507592	2 days ago	0xDAFe4DfD...3cAECCb81	OUT	0 ETH	0.00003726

* Implementation Phase: Final Output (no error)

Applied and Action Learning

The screenshot shows a detailed view of a blockchain transaction. At the top, it displays the gas limit (1,220,865) and usage (1,210,094, 99.12%). Below that, gas fees are listed with base, max, and priority values. A section for 'Burnt & Txn Savings Fees' shows a small amount burnt and a larger amount saved. Under 'Other Attributes', the transaction type (2 (EIP-1559)), nonce (84), and position in block (29) are shown. The 'Input Data' section contains a long hex string representing the transaction inputs. A 'View Input As' button is available to switch between hex and another format. At the bottom, there's a 'More Details' link with a 'Click to show less' option.

Now you can see all the details of the transactions on a blockchain explorer

* Observations

1. The transaction was successfully found on the Bitcoin blockchain using the provided TXID, showing full details such as sender/receiver addresses, amount transferred, and transaction fee.
2. The explorer displayed confirmation status, block number, and timestamp, confirming the transaction's inclusion in the blockchain.
3. Inputs and outputs were clearly listed, showing how Bitcoin was spent from one address and sent to one or more recipients.

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. :

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

Signature of the Faculty:

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Two sheets per experiment (10-20) to be used.**