Applied and Action Learning
(Learning by Doing and Discovery)

Name of the Experiement : Know Your TX – Dissecting a Transaction

Objective/Aim:

- To understand how Ethereum transactions are recorded, tracked, and analyzed using **Etherscan**, the leading blockchain explorer for Ethereum.

- To examine key transaction details such as sender, receiver, transaction hash, gas fees, and contract interactions using a given wallet address.

Apparatus/Software Used:

- Laptop/PC
- Word for documentation
- Internet for research
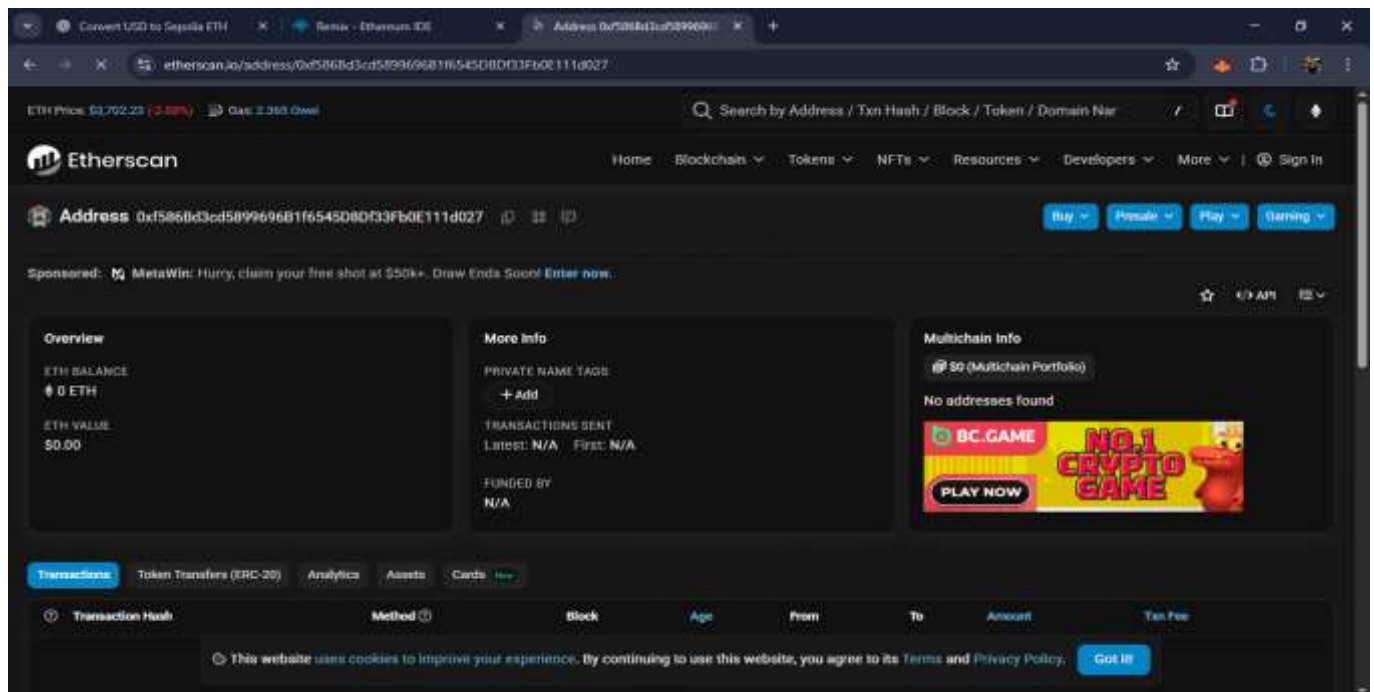- Chrome Browser
- https://etherscan.io

Theory/Concept:

- Every Ethereum transaction is permanently stored on the blockchain and is publicly accessible.
- **Etherscan** is a powerful blockchain explorer that allows users to analyze Ethereum data.
- Using Etherscan, you can view:
  - ETH balance of a wallet address
  - Incoming and outgoing transactions
  - Contract deployment and interactions
  - Gas usage and associated fees
  - Complete transaction history via wallet address or transaction hash

Understanding how to trace and interpret this data helps in debugging, auditing, or simply learning how blockchain networks operate transparently.

Procedure:

1. **Copy the Ethereum Wallet Address**
   - For example: `0xf5868d3cd5899696B1f6545D8Df33Fb0E111d027`
2. **Open Etherscan**
   - Visit https://etherscan.io in your browser.
3. **Search the Wallet Address**
   - Paste the wallet address into the Etherscan search bar and press **Enter**.
4. **Review Wallet Overview**
   - View the **ETH Balance** (e.g., 0 ETH, equivalent to $0.00 USD)
   - Observe the **Transaction Count** and **ETH Value**
5. **Explore Additional Details**
   - Navigate through tabs like:
     - **Transactions**
     - **Token Transfers**
     - **Analytics**
     - **Assets**
6. **Analyze Transaction Details** *(if available)*
   - For each transaction, Etherscan shows:
     - **Transaction Hash**
     - **Method** (e.g., Transfer, Contract Call)
     - **Block Number**
     - **Sender and Receiver Addresses**
     - **Amount Transferred**
     - **Transaction Fee (Gas Used × Gas Price)**

Observation Table

Parameter	Observed Value
Wallet Address	0xf5868d3cd5899696B1f6545D8Df33Fb0E111d027
ETH Balance	0 ETH
ETH Value (USD)	$0.00
Transactions Sent	N/A
Transaction History	No transactions recorded yet
Network Used	Ethereum Mainnet (inferred from etherscan.io)

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:

Signature of the Faculty:

Name :
Regn.No.