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 Experiement : Know Your TX – Dissecting a Transaction

* Coding Phase: Pseudo Code / Flow Chart / Algorithm

ALGORITHM:

1. Start
2. Open a blockchain explorer website like https://etherscan.io.
3. Get a transaction hash (TX Hash) from MetaMask or Remix after deploying a smart contract or sending ETH.
4. Paste the TX Hash into the search bar of the explorer.
5. Analyze the transaction details, including:
   - From and To addresses
   - Gas used and Gas price
   - Block number
   - Timestamp
   - Nonce
   - Status (Success/Failed)
6. Observe how each parameter reflects transaction flow on the blockchain.
7. Check the value transferred (if any) and input data (for contract interactions).
8. Understand that every transaction is permanent and traceable.
9. Learn how miners validate transactions and include them in blocks.
10. End

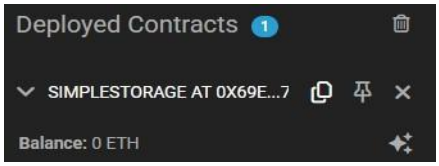
* Software Used:

1. MetaMask Wallet
2. Etherscan-https://etherscan.io.
3. Brave Browser

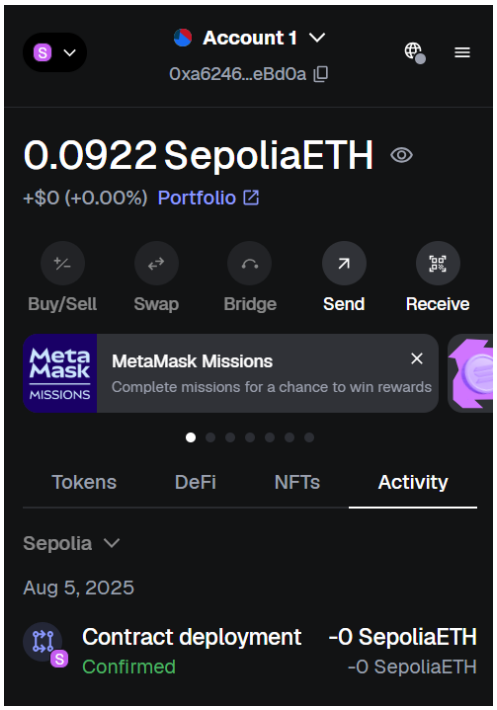
*As applicable according to the experiment.
Two sheets per experiment (10-20) to be used.

* Implementation Phase: Final Output (no error)

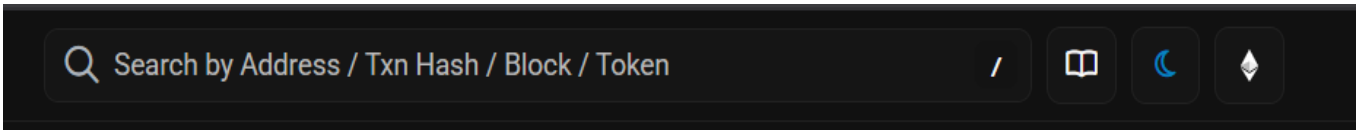
First go to your Remix IDE and in deploy & run Transaction section you can find a deploy contract section in this section copy the Wallet address



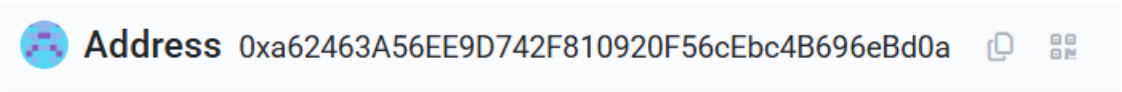
Or ,you can go to your Meta Mask wallet and copy the wallet address to check the disection of the transactions



After copy the Wallet address now go to the website Etherscan.io and in this website you can find out a search button now paste the wallet address



After search the wallet now we can see all the details of our transactions Like: transaction hash,status ,block number ,Nonce etc
and we can se in left top corner we can see our contract number



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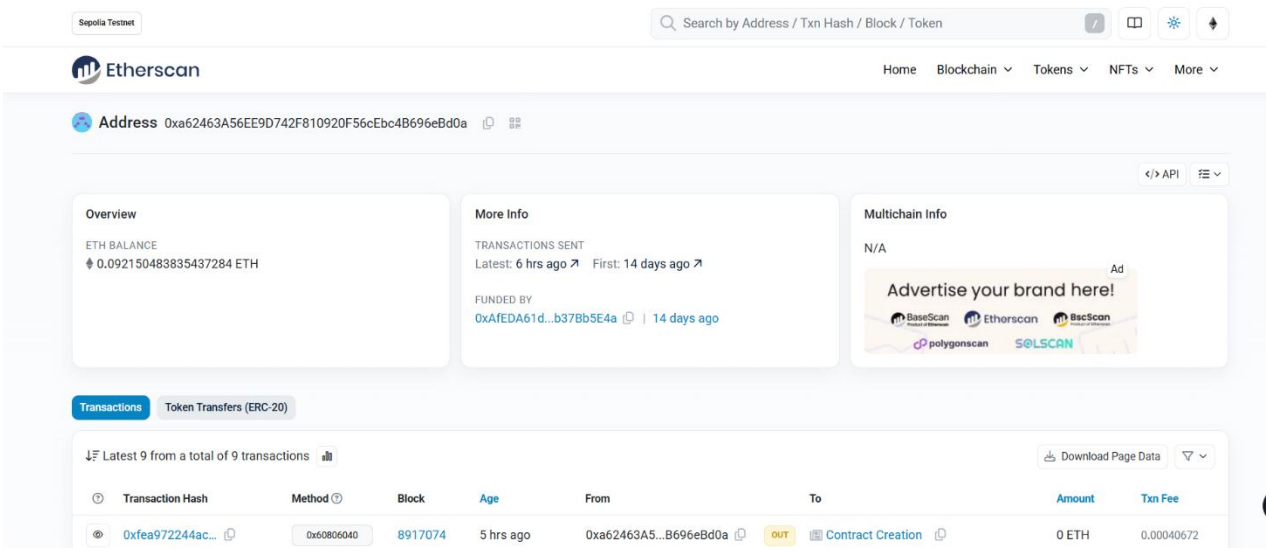
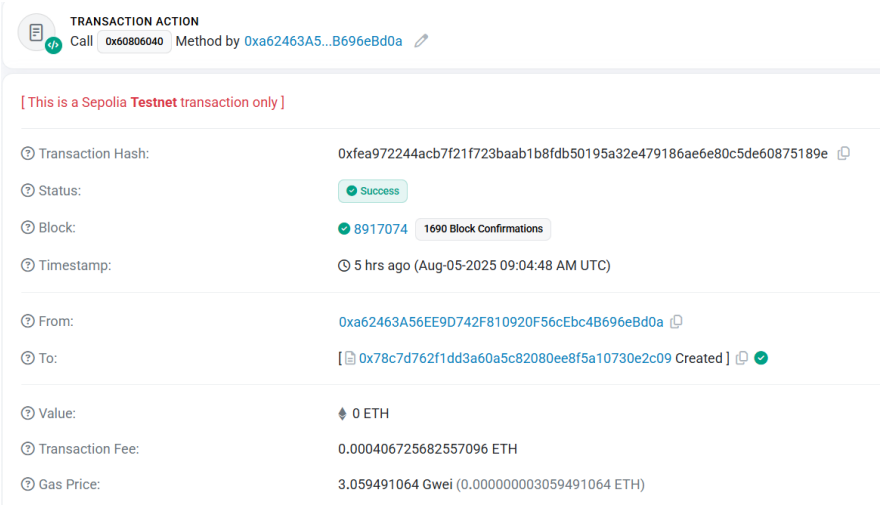
Two sheets per experiment (10-20) to be used.

* Implementation Phase: Final Output (no error)



Now click on the Transaction Hash number for more details



After click the hash we can see all details like Transaction Hash,Status ,Block number,Timestamp,The transaction record from and to,and value of ethereum,Transaction fee,gas price etc

here we can see the status is showing successs

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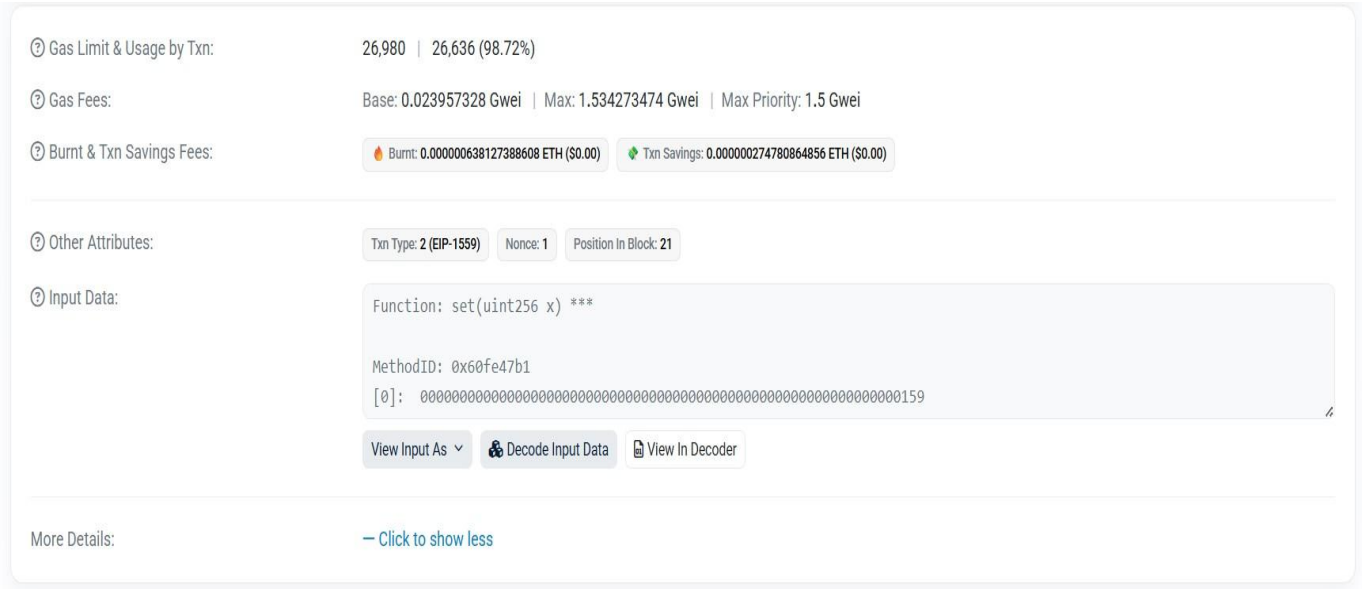
Two sheets per experiment (10-20) to be used.

* Implementation Phase: Final Output (no error)



Now we successfully disection our transaction

Observation:

1. Each blockchain transaction has a unique Transaction Hash (TX Hash) used to track and verify it on the blockchain.
2. Important details like sender address, receiver address, gas used, block number, and status are publicly visible and transparent.
3. Transactions are immutable and once confirmed, they are permanently stored in the blockchain ledger.

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. :

Signature of the Faculty:

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