School: .............................................................. Campus: ...............................................

Academic Year: .................. Subject Name: .................................................. Subject Code: ......................

Semester: ............. Program: ................................... Branch: ..................... Specialization: .........................

Date: ...............................

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# Applied and Action Learning
(Learning by Doing and Discovery)

**Name of the Experiement :** Wallet on Testnet – Set Up and Transact.

## Objective/Aim:

- To create and set up a crypto wallet on a blockchain test net.

- To understand how to receive free test tokens using a faucet.

- To perform and verify test transactions between wallets.
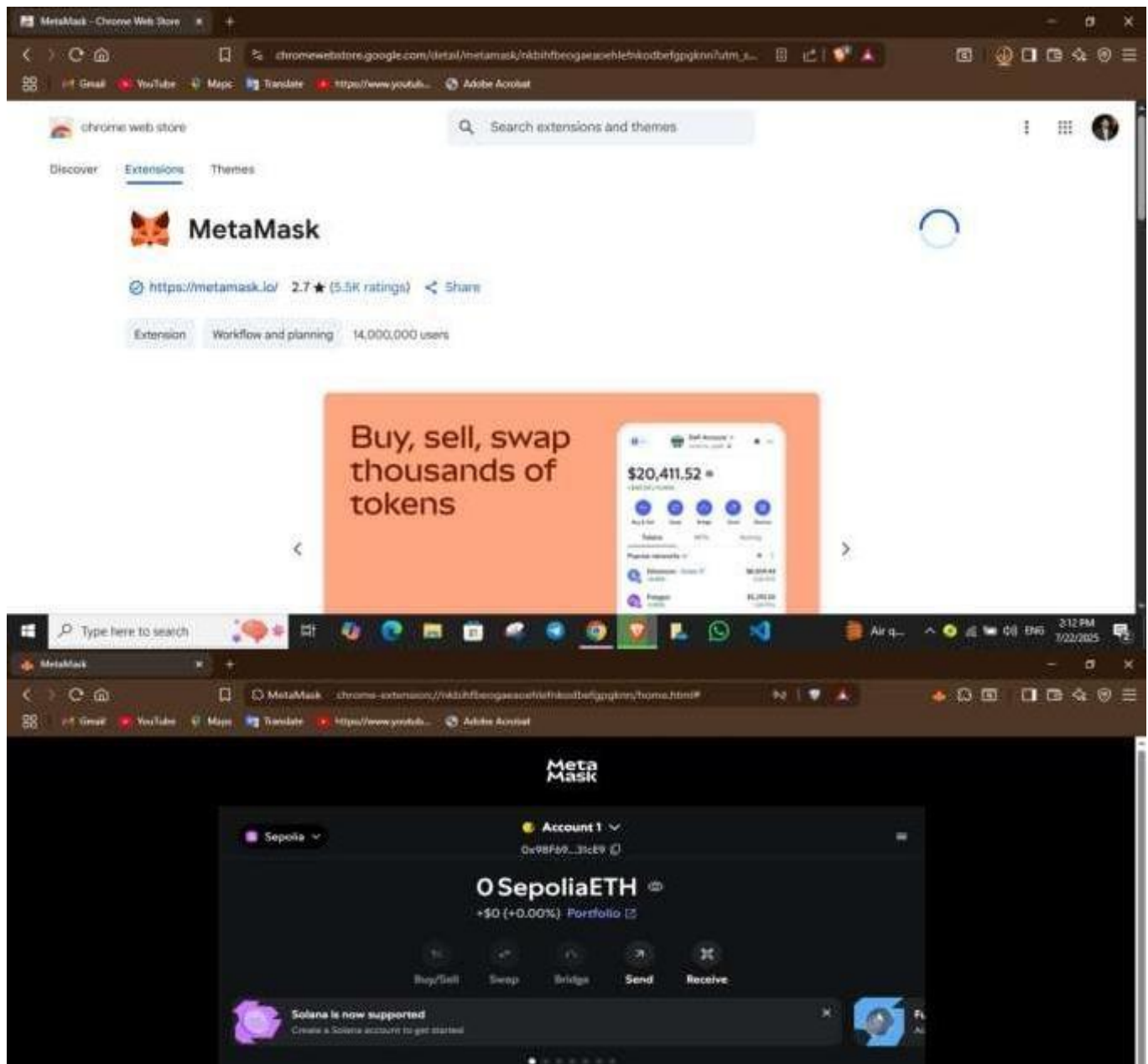
## Apparatus/Software Used:

☐ Computer or laptop with internet connection
☐ Web browser (e.g., Chrome or Firefox)
☐ MetaMask wallet extension or mobile app
☐ Test net faucet (e.g., Spolia or Goerli faucet)
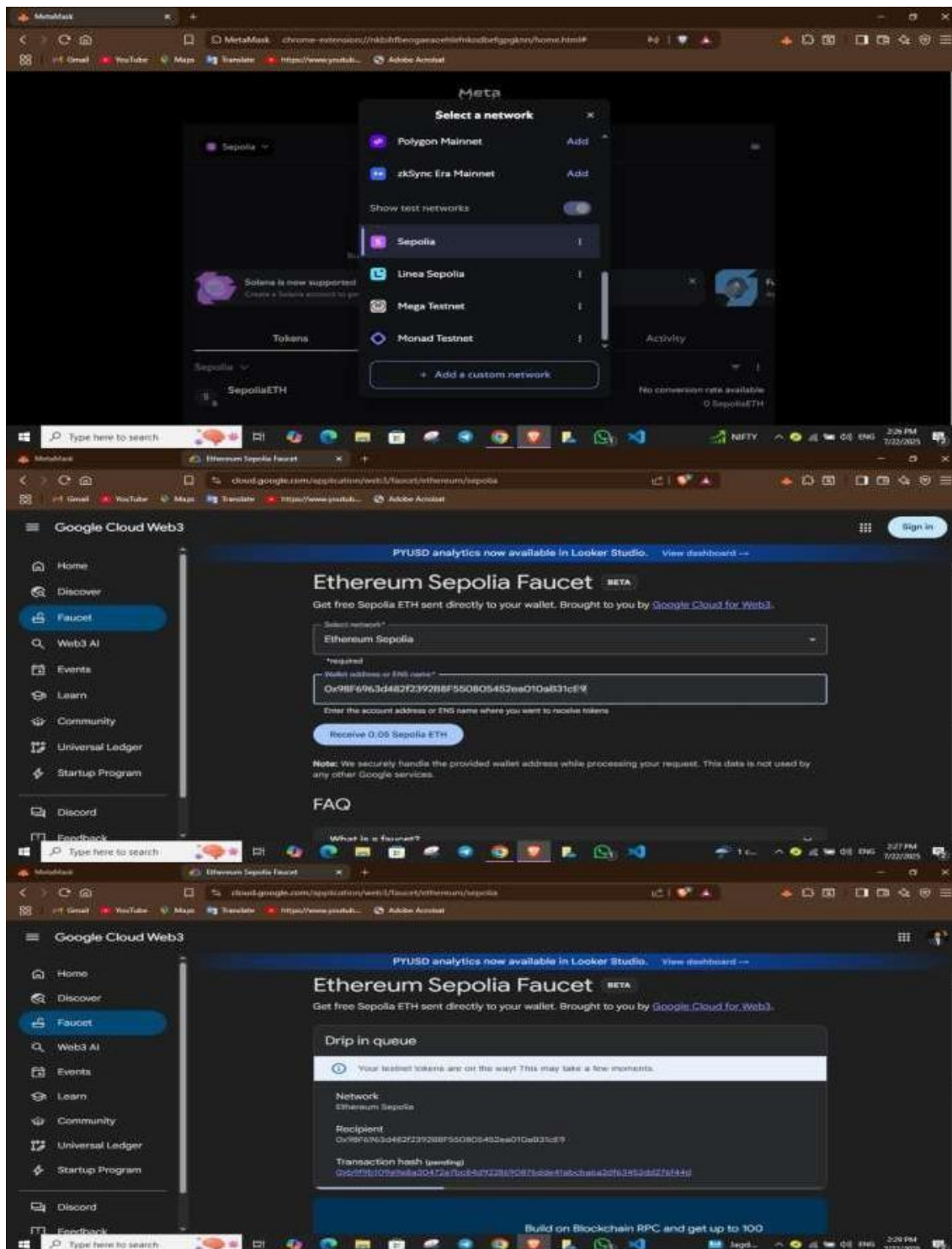☐ Blockchain explorer for testne.

## Theory/Concept:

1. A **testnet** is a testing version of a blockchain where users can experiment without using real money.

2. A **crypto wallet** like MetaMask is used to store, send, and receive digital assets.

3. **Test tokens** are free coins provided by faucets for learning and testing purposes.

4. Transactions made on the testnet are recorded on a **testnet blockchain explorer** for verification.

5. This setup helps users practice blockchain operations safely before using the main network (mainnet).

## Procedure:

- **Install and set up the MetaMask wallet in a browser.**

- **Select a Test Network (e.g., Goerli).**

- **Copy your wallet address.**

- **Visit a faucet website and request test ETH.**

- **Check wallet balance after receiving tokens.**

- **Send test ETH to another wallet address.**

- **Verify the transaction using a blockchain explorer.**

## Procedure:

## Observation Table:

| Step No. | Action Performed | Observation / Result |
|---|---|---|
| 1 | MetaMask wallet installed and account created | Wallet address generated successful ✅ |
| 2 | Connected wallet to Sepolia Testnet | Network switched to testnet withou error |
| 3 | Requested test ETH from faucet | Test tokens received successfully |
| 4 | Sent test ETH to another wallet | Transaction completed and confirme |
| 5 | Verified transaction on testnet explorer | Transaction details displayed correct |

## 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.