



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 : Wallet on Testnet – Set Up and Transact.

Objective/Aim:

- To configure a MetaMask wallet.
- To establish a connection with the Sepolia Ethereum test network.
- To acquire Sepolia test ETH from a designated faucet service.
- To prepare the wallet for executing test transactions and deploying smart contracts.

Apparatus/Software Used:

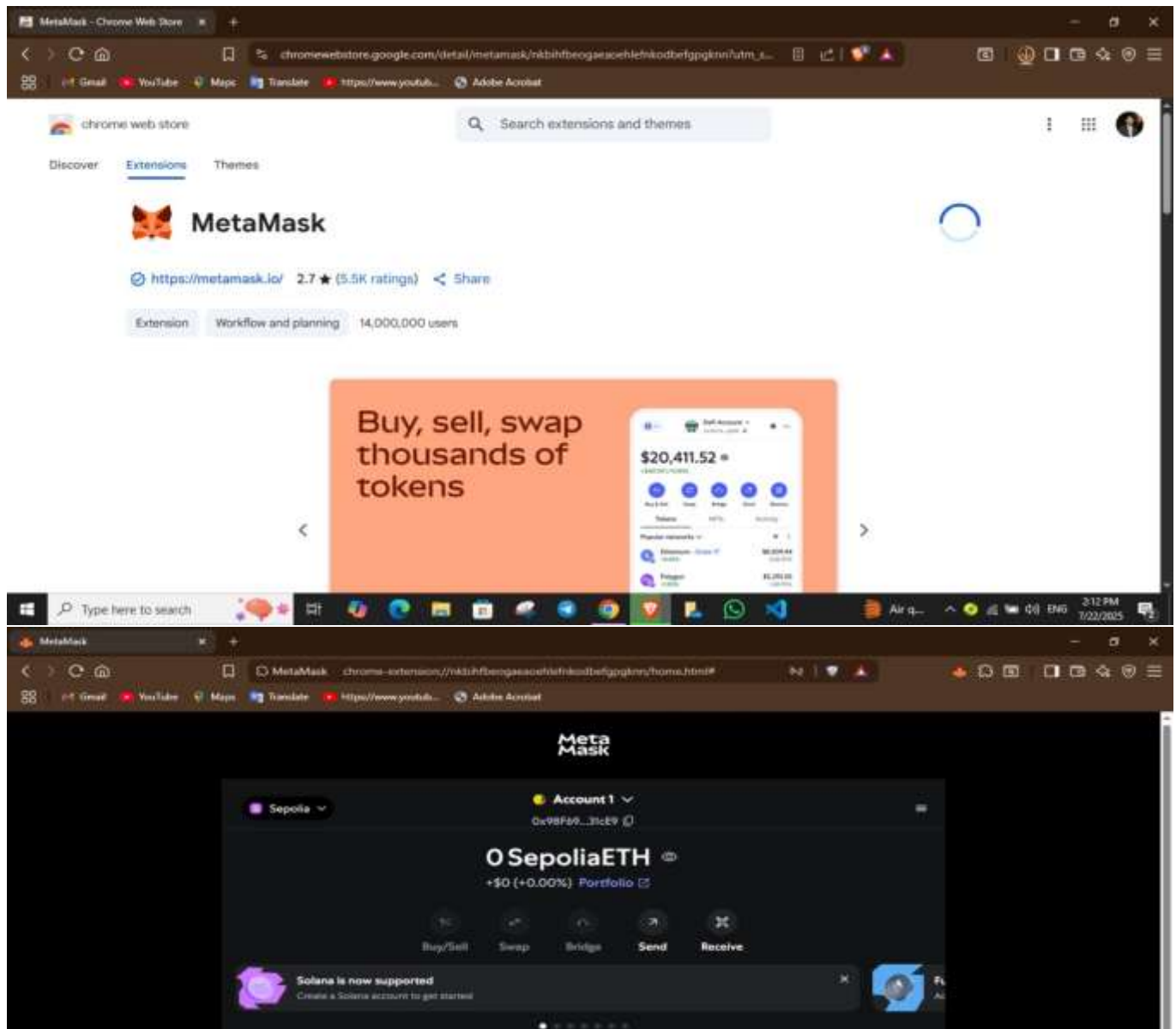
- Laptop/PC
- PowerPoint/Word for documentation
- Internet for research

Theory/Concept:

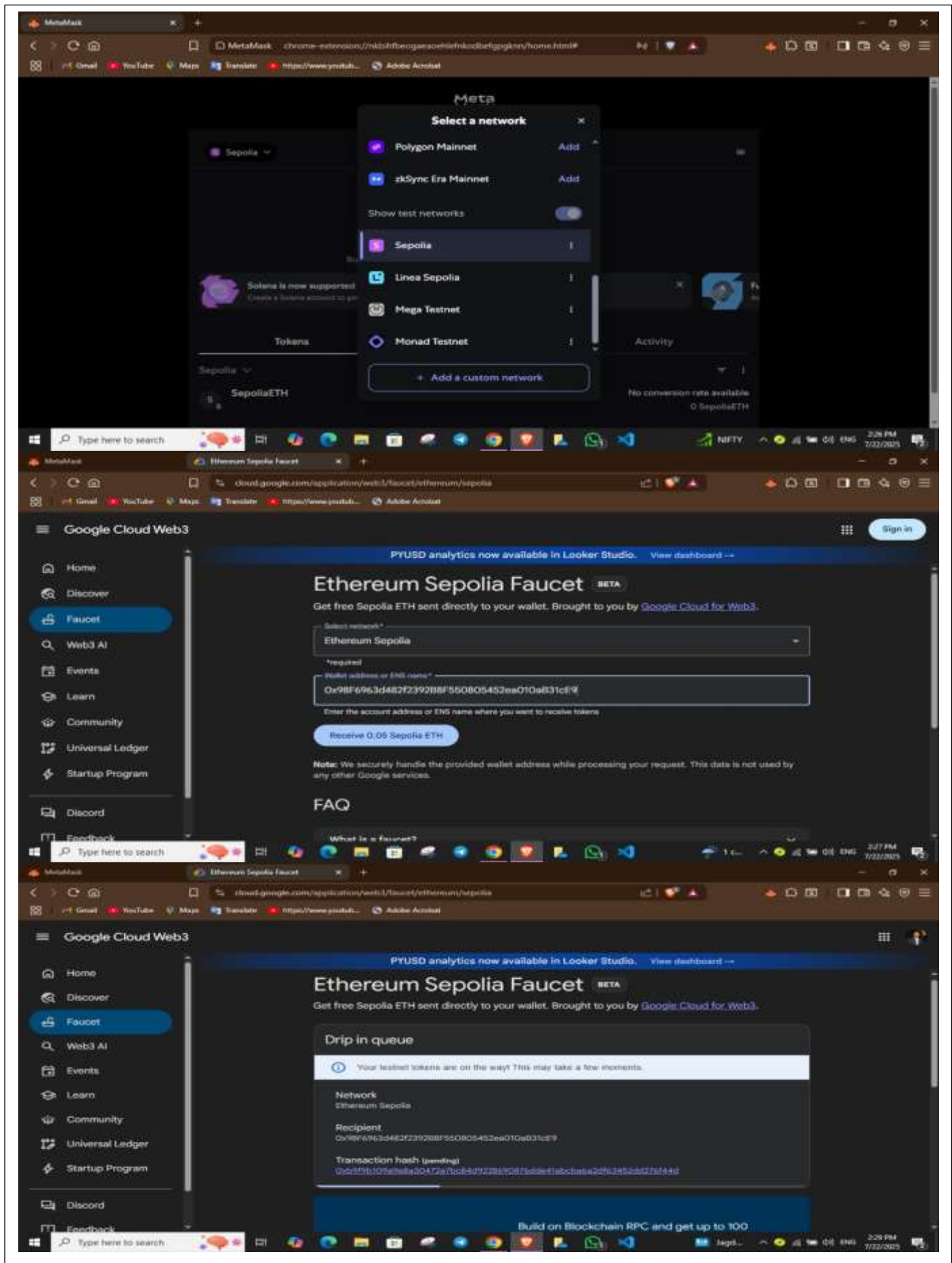
- MetaMask functions as a cryptocurrency wallet and an access point to blockchain applications, enabling users to manage private keys and interact with decentralized applications (dApps).
- The Sepolia Testnet is a public Ethereum testing environment designed for verifying smart contracts and dApps without the need for actual ETH.
- A Faucet is a service that distributes complimentary testnet ETH for development and testing activities.
- Testnet ETH possesses no monetary value in the real world but simulates real ETH for secure experimentation.

Procedure:

- **Step 1:** Access the Chrome Web Store and install the MetaMask extension.
- **Step 2:** Initiate a new MetaMask wallet or import an existing one using a seed phrase.
- **Step 3:** Activate test networks within the MetaMask settings.
- **Step 4:** Transition to the Sepolia network.
- **Step 5:** Copy your MetaMask wallet address.
- **Step 6:** Navigate to the Google Sepolia Faucet website.
- **Step 7:** Paste your wallet address into the designated field and click "Receive 0.05 Sepolia ETH".
- **Step 8:** Await confirmation; your test ETH will then appear in your MetaMask wallet.



Procedure:



Observation Table:

- **MetaMask Installation:** Successfully integrated via the Chrome Web Store.
- **Wallet Address:** 0x98F6...31cE9
- **Chosen Network:** Sepolia (test network is enabled).
- **Test ETH Request:** Submission successful through the Google Sepolia Faucet.
- **Faucet Transaction Status:** Currently pending (awaiting confirmation on the Sepolia testnet).
- **SepoliaETH Balance:** Initial balance was 0 ETH; will update upon completion of the faucet transaction.

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.