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 : Wallet on Testnet – Set Up and Transact.

Objective/Aim:

- To setup a MetaMask wallet.
- To connect it to the Sepolia Ethereum testnet.
- To receive Sepolia test ETH from a faucet.
- To prepare the wallet for test transactions and smart contract deployment.

Apparatus/Software Used:

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

Theory/Concept:

- **MetaMask** is a crypto wallet and gateway to blockchain apps. It allows users to manage private keys and interact with decentralized applications (dApps).

- **Sepolia Testnet** is a public Ethereum test network used to test smart contracts and dApps without using real ETH.

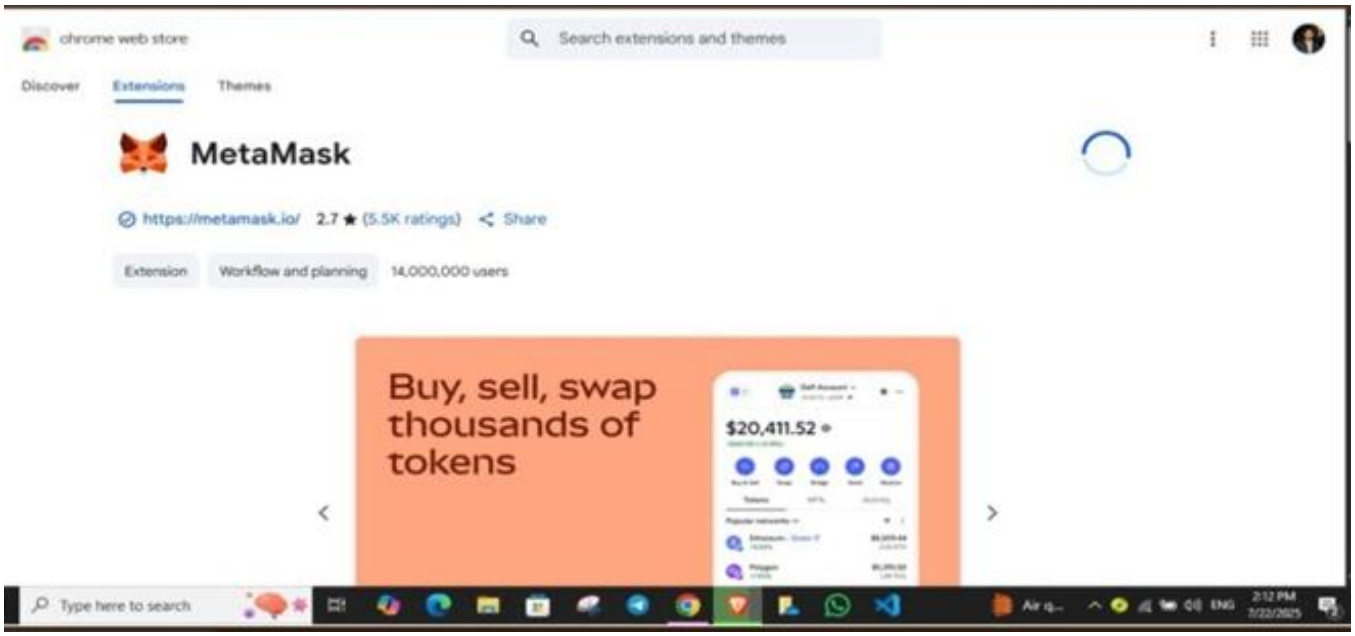
- **Faucet** is a service that gives out free testnet ETH for development and testing purposes.

- **Testnet ETH** has no real-world value but mimics real ETH for safe experimentation.

Procedure:

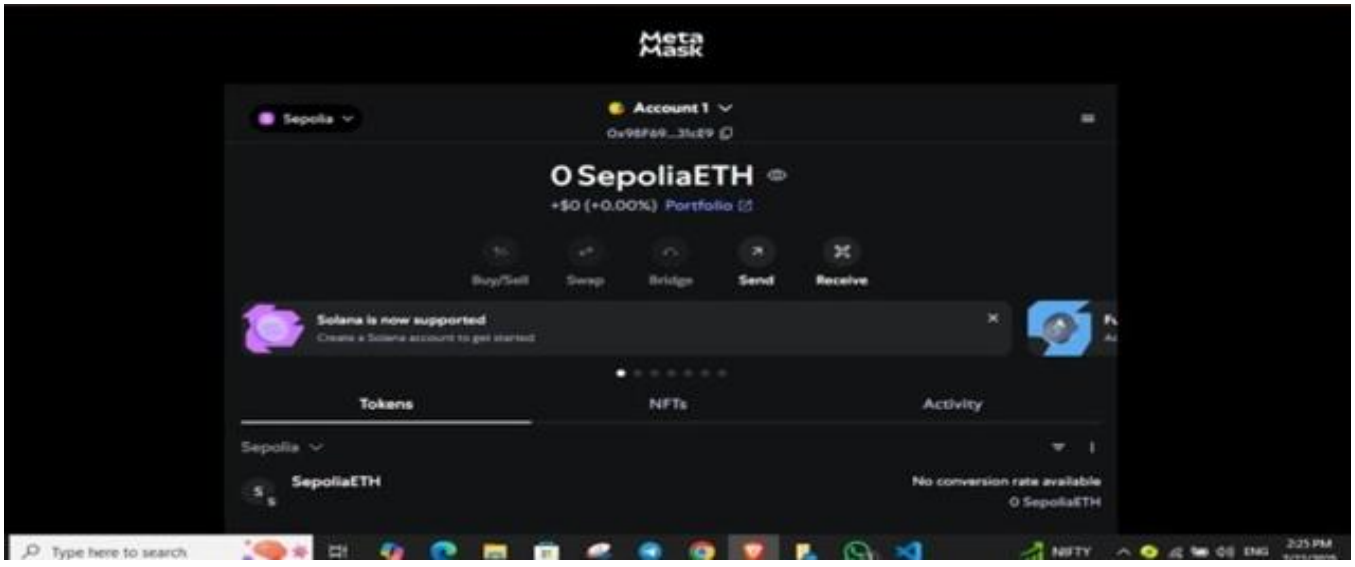
Step.1- Open Chrome Web Store and install MetaMask extension.

Step.2- Create a MetaMask wallet or import using a seed phrase.



Step.3- Enable **test networks** in MetaMask settings.

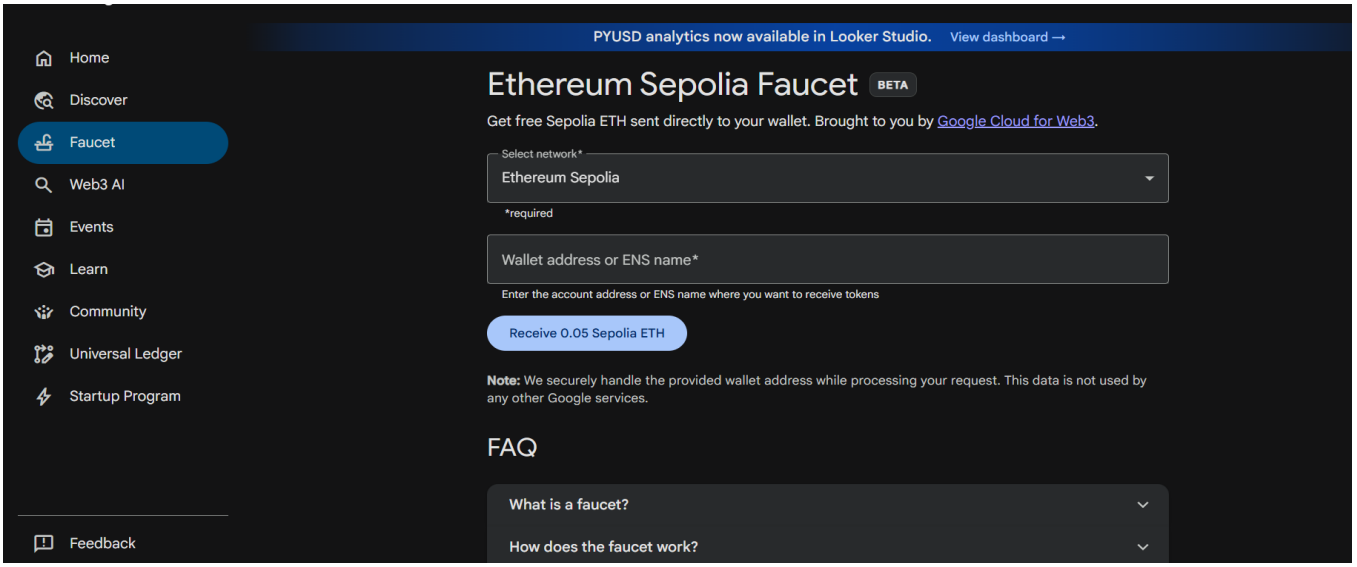
Step.4- Switch to the **Sepolia** network.



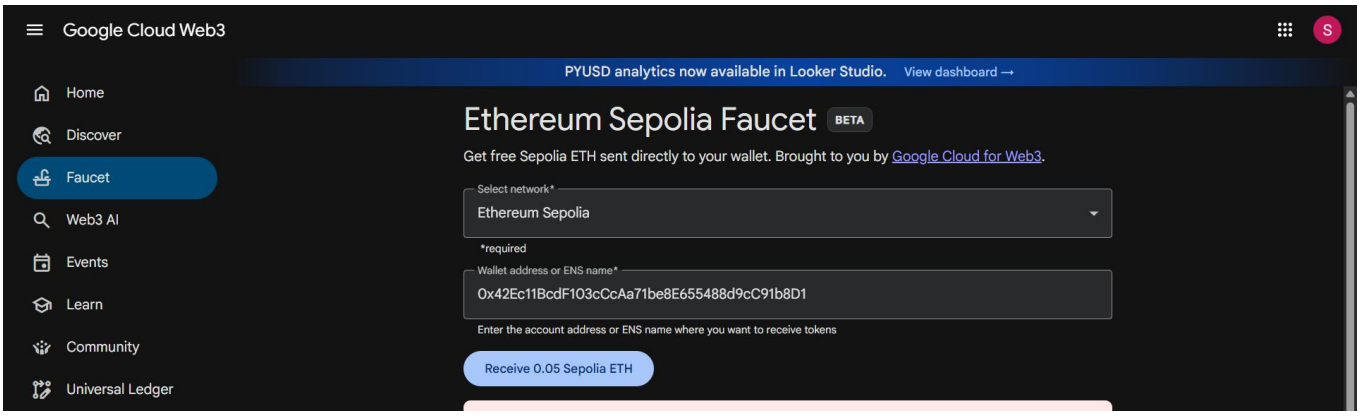
Step.5- Copy your MetaMask wallet address.

Step.6- Visit the Google Sepolia Faucet.

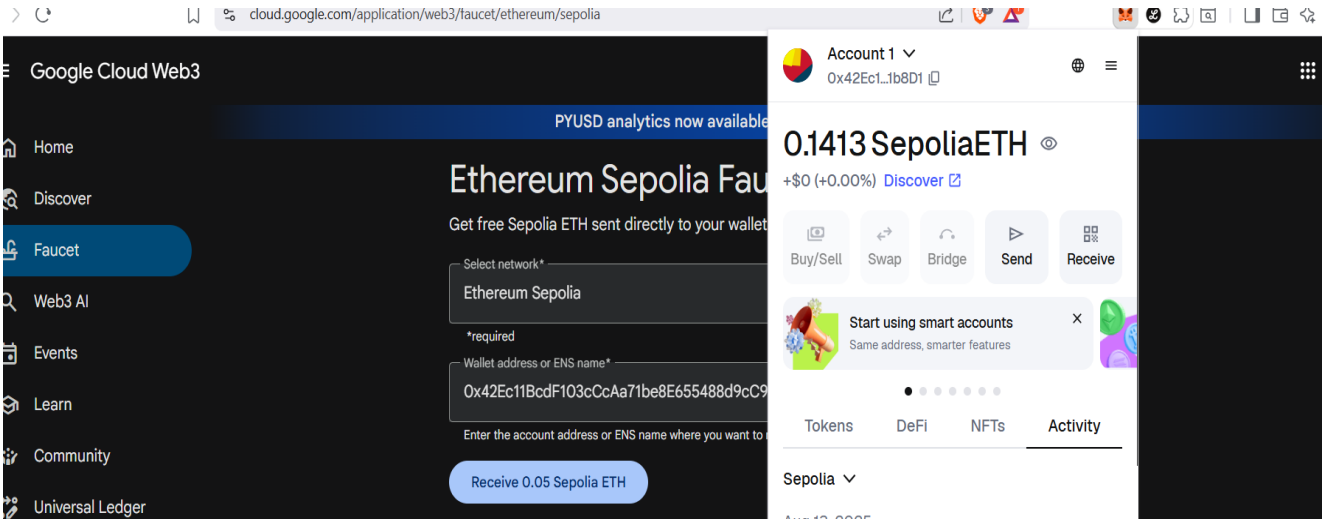
Procedure:



Step.7- Paste your wallet address and click "Receive 0.05 Sepolia ETH".



Step.8- Wait for confirmation. Your test ETH will appear in MetaMask.



Observation:

While doing the “Wallet on Testnet – Set Up and Transact” lab, I successfully created a wallet on a testnet network, received test tokens from a faucet, and performed a transaction. The transaction was confirmed on the blockchain explorer, verifying that the wallet setup and transfer process worked correctly.

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.