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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 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:

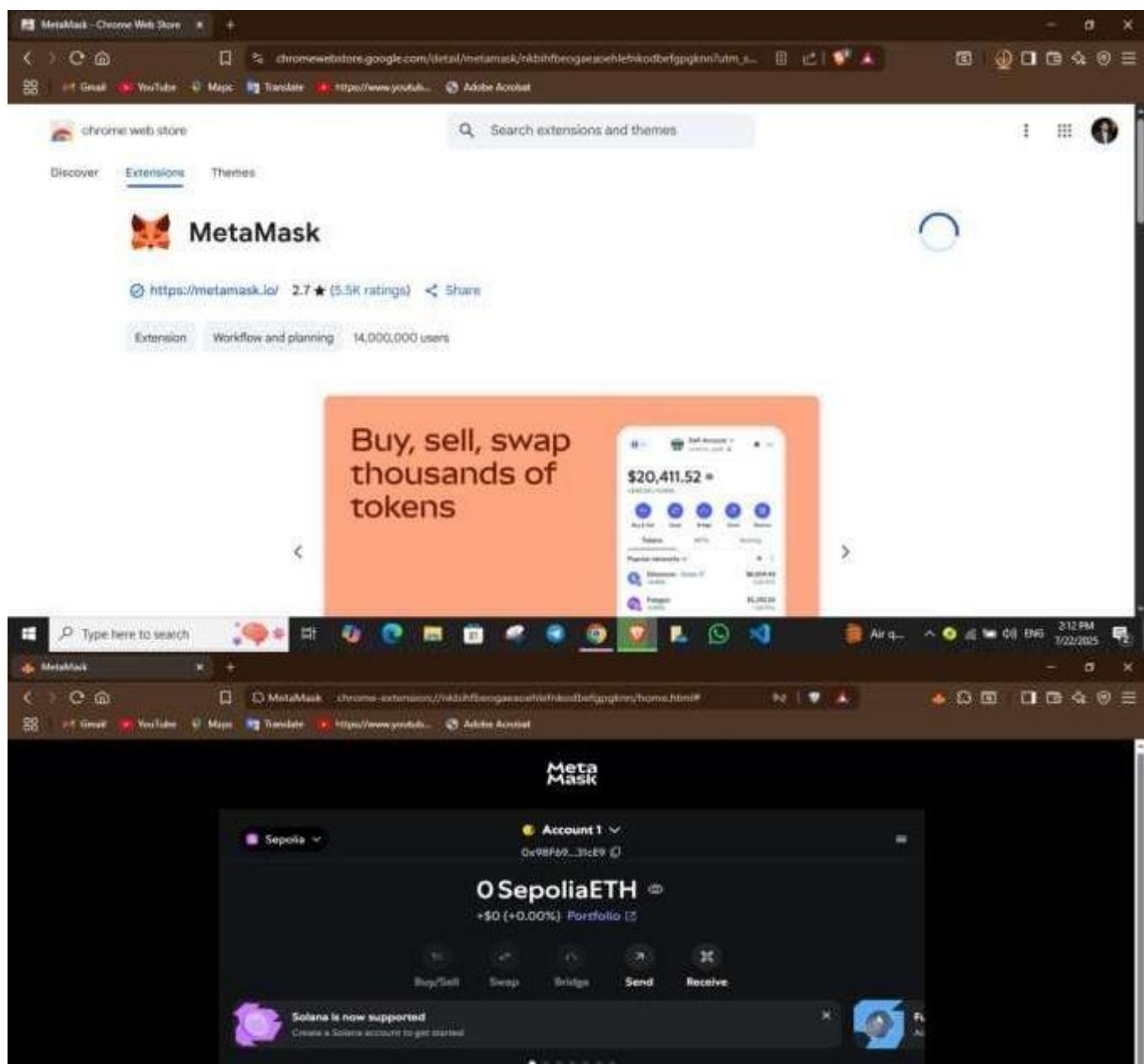
- Computer or laptop with internet connection
- Web browser (e.g., Chrome or Firefox)
- MetaMask wallet extension or mobile app
- Test net faucet (e.g., Spolia or Goerli faucet)
- Blockchain explorer for testnet.

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:

The image consists of three vertically stacked screenshots of a Windows desktop environment, likely a MetaMask extension window, demonstrating the process of requesting Ethereum Sepolia ETH from a Google Cloud Web3 faucet.

Panel 1: Select a network

A modal window titled "Select a network" is open. It shows a list of networks: "Sepolia" (selected), "Polygon Mainnet", "zkSync Era Mainnet", "Sepolia", "Linea Sepolia", "Mega Testnet", and "Monad Testnet". Below the list is a note: "Sepolia is now supported. Create a Sepolia account to get started." A button at the bottom right says "+ Add a custom network".

Panel 2: Ethereum Sepolia Faucet

The main window shows the "Ethereum Sepolia Faucet" page. The sidebar on the left has "Faucet" selected. The main area displays the text: "Get free Sepolia ETH sent directly to your wallet. Brought to you by Google Cloud for Web3." A dropdown menu under "Select network" is set to "Ethereum Sepolia". An input field for "Wallet address or ENS name" contains the value "0x98f6963d482f23928bf950805452ea010a831c89". A button labeled "Receive 0.05 Sepolia ETH" is visible. A note below states: "Note: We securely handle the provided wallet address while processing your request. This data is not used by any other Google services." A "FAQ" section is present at the bottom.

Panel 3: Drip in queue

The main window shows the "Drip in queue" status. It indicates that the transaction is being processed ("Your faucet token is on its way! This may take a few moments."). The "Network" is listed as "Ethereum Sepolia". The "Recipient" address is "0x98f6963d482f23928bf950805452ea010a831c89". The "Transaction hash (pending)" is shown as "0x5f5ff010f8e3d0472a7bc8a7922869c08765ca41a8c9e42c613453d4276144d". A footer at the bottom says "Build on Blockchain RPC and get up to 100".

Observation Table:

Step No.	Action Performed	Observation / Result
1	MetaMask wallet installed and account created	Wallet address generated successfully <input checked="" type="checkbox"/>
2	Connected wallet to Sepolia Testnet	Network switched to testnet without error
3	Requested test ETH from faucet	Test tokens received successfully
4	Sent test ETH to another wallet	Transaction completed and confirmed
5	Verified transaction on testnet explorer	Transaction details displayed 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.