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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 Walkthrough – Hands-on Wallet Setup

Objective/Aim :

To understand and perform the step-by-step installation and setup of a blockchain wallet, enablinginteraction with Web3 dApps and networks like Ethereum or Polygon.

Apparatus/Software Used:

- Desktop or mobile device with internet
- Web browser (Chrome/Firefox/Brave)
- **MetaMask Wallet** (most commonly used wallet

Theory/Concept:

A **crypto wallet** allows users to store, send, and receive cryptocurrencies. In Web3, it also functions as your **digital identity** and **login method** for dApps.

Types of wallets:

- **Hot Wallets** (online, e.g., MetaMask)
- **Cold Wallets** (offline, hardware wallets)
- **Custodial vs Non-Custodial** (control of private keys)

Procedure:

Step 1: Install MetaMask

- Visit: https://metamask.io
- Click “Download”
- Choose your browser or mobile platform
- Add the MetaMask extension

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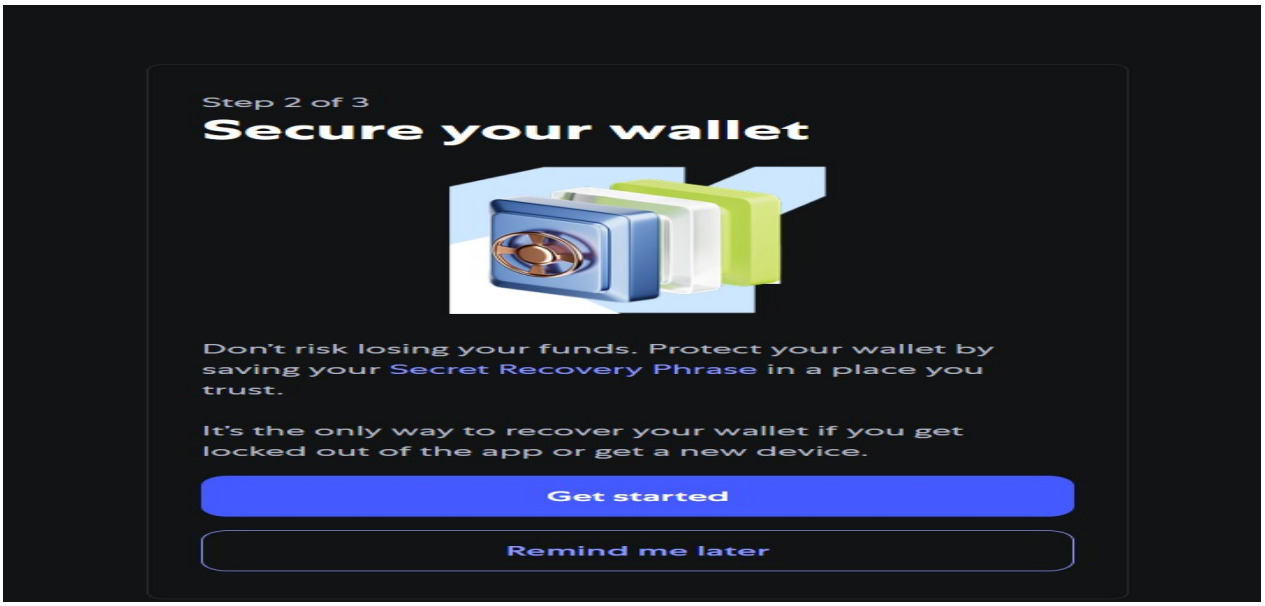
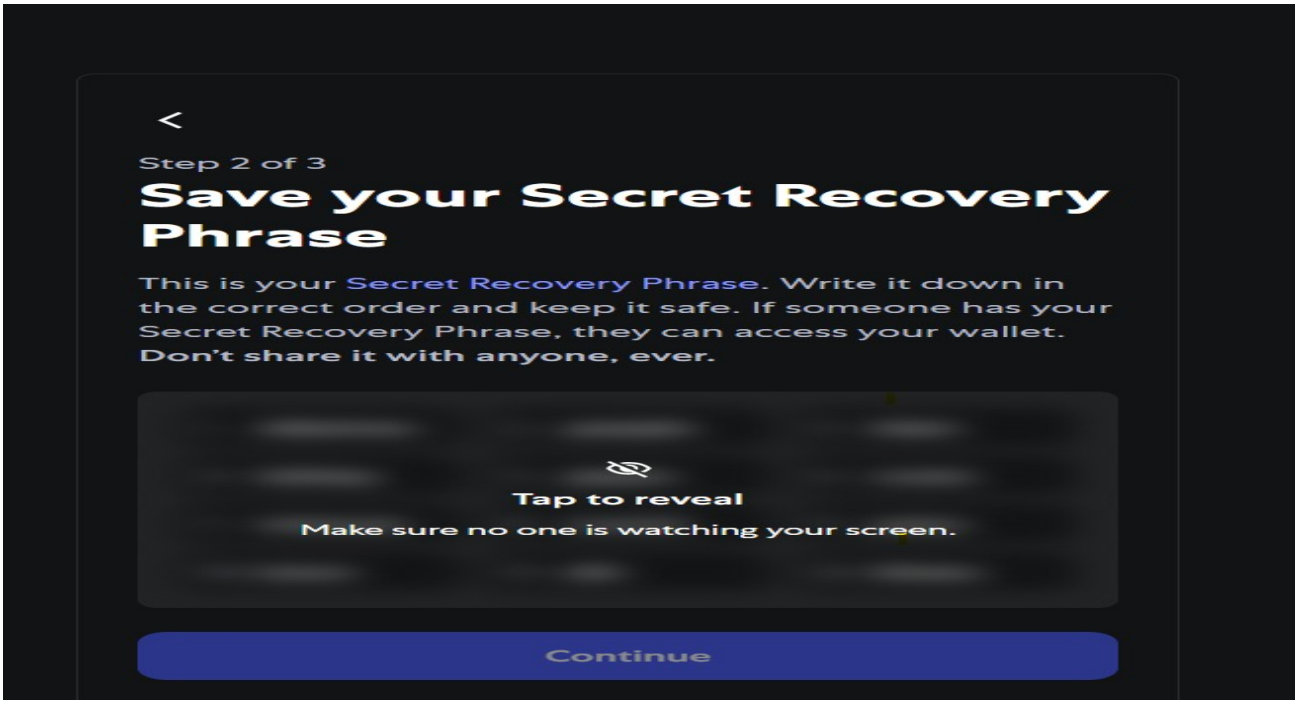
Step 2: Create a New Wallet

- Click **"Get Started"**
- Select **"Create a Wallet"**
- Set a strong password (store securely)
- Read and accept terms



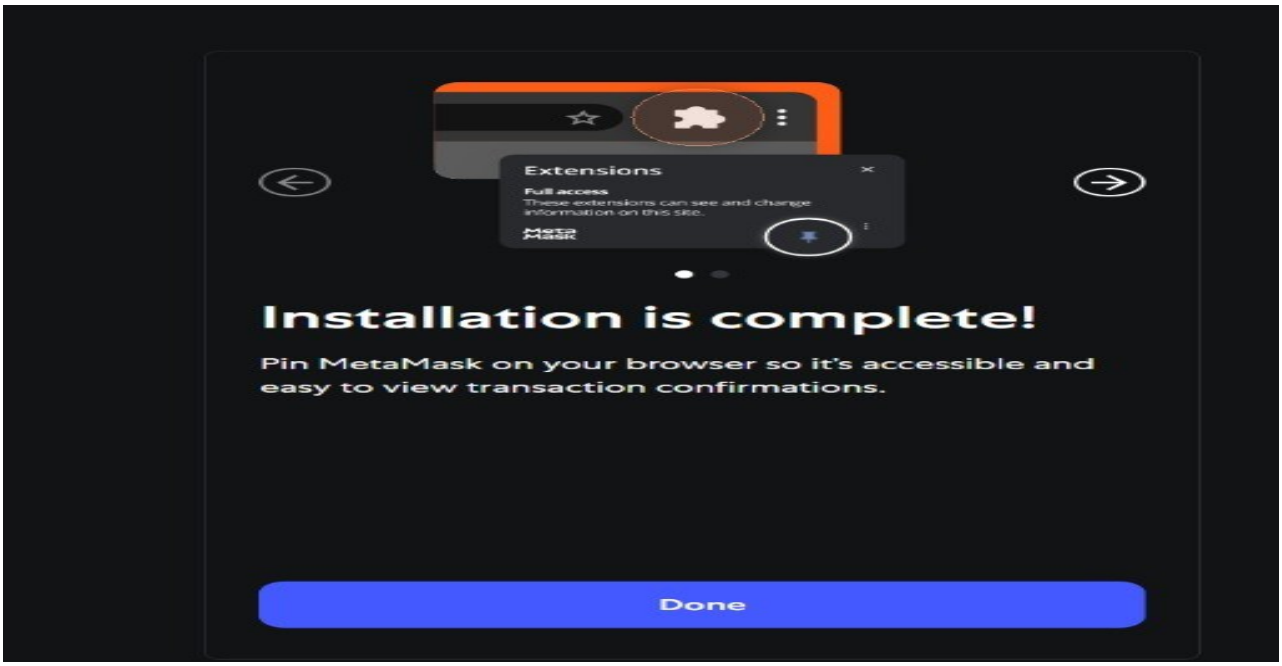
Step 3: Secure Your Wallet

- Write down the **12-word Secret Recovery Phrase** on paper (do not store online)
- This phrase is the ONLY way to recover your wallet
- Confirm the phrase when prompted



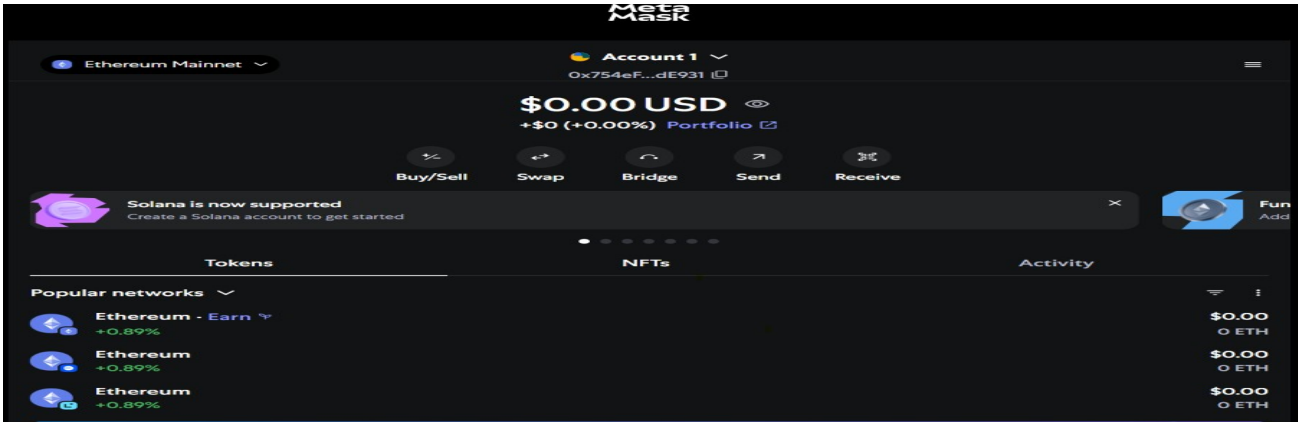
Step 4: Explore Your Wallet

- You'll see your **Ethereum address** (starts with `0x...`)
- Check balance, transaction history, and add custom tokens



Step 5: Connect to a dApp (optional)

- Visit a dApp like Remix or Uniswap
- Click "Connect Wallet"
- Authorize MetaMask connection



Observation:

- During the hands-on wallet setup, it was observed that the **12-word Secret Recovery Phrase is critically important** for wallet recovery.
- **If the user forgets or loses the recovery phrase**, it is **not possible to recover the wallet or access the stored funds**.
- Wallet providers like **MetaMask do not store the recovery phrase**; therefore, the responsibility of securing it lies entirely with the user.

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.