Centurion University
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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 Experiement :

* Coding Phase: Pseudo Code / Flow Chart / Algorithm

Crypto Wallet: MetaMask

- Public blockchains such as Ethereum represent the future of decentralized internet databases, and MetaMask acts as the next step forward for browsers in this new ecosystem.
- MetaMask is available as a browser extension and a mobile application, allowing users to store and manage private keys for Ethereum and Solana.
- It functions as a wallet for Ether and other compatible tokens while also enabling direct interaction with decentralized applications (dApps).
- The platform does not collect personal details like your email, password, or Secret Recovery Phrase. All keys remain solely under your control, ensuring complete ownership of your digital identity.

Steps to Install and Set Up MetaMask

1. Downloading MetaMask

- Visit the official website: Always access MetaMask from its official site to prevent downloading fake or harmful versions.
- Choose your browser version: Click the download option and select the extension version that matches your browser.
- Add it to your browser: Approve the prompts to successfully install the MetaMask extension.

2. Creating Wallet

- Launch the extension: Click the MetaMask icon and hit "Get Started".
- Select "Create New Wallet": Begin the wallet creation process.
- Set a strong password: Pick a secure password and confirm it.
- Backup your recovery phrase: MetaMask will display a 12-word Secret Recovery Phrase. Write it down and keep it stored safely offline.
- Confirm your phrase: Verify the recovery phrase by selecting the words in the correct order.
- Wallet ready: Your MetaMask wallet is now active.

3. Using Wallet

- Open MetaMask anytime: Click the fox icon in your browser toolbar.
- Find your wallet address: Under "Account 1", you'll see your unique address, which can be shared to receive tokens or cryptocurrency.

*As applicable according to the experiment.
Two sheets per experiment (10-20) to be used.

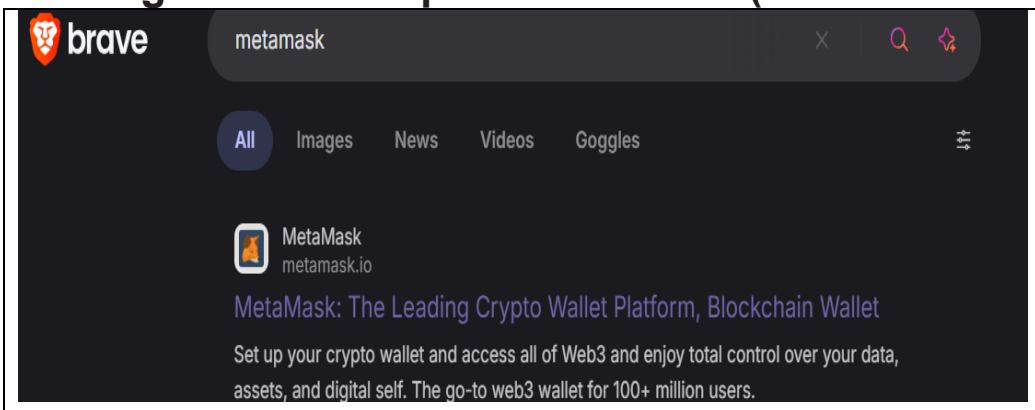
Coding Phase: Pseudo Code / Flow Chart / Algorithm

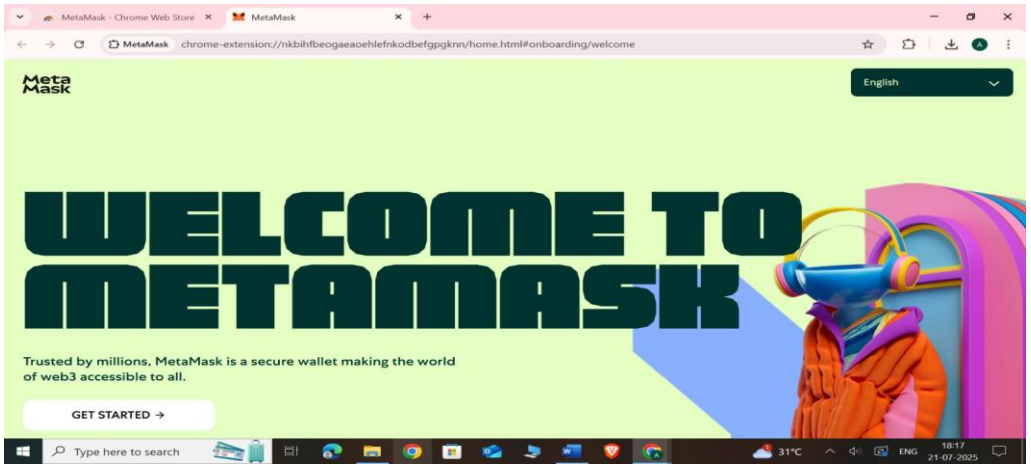
* Softwares used

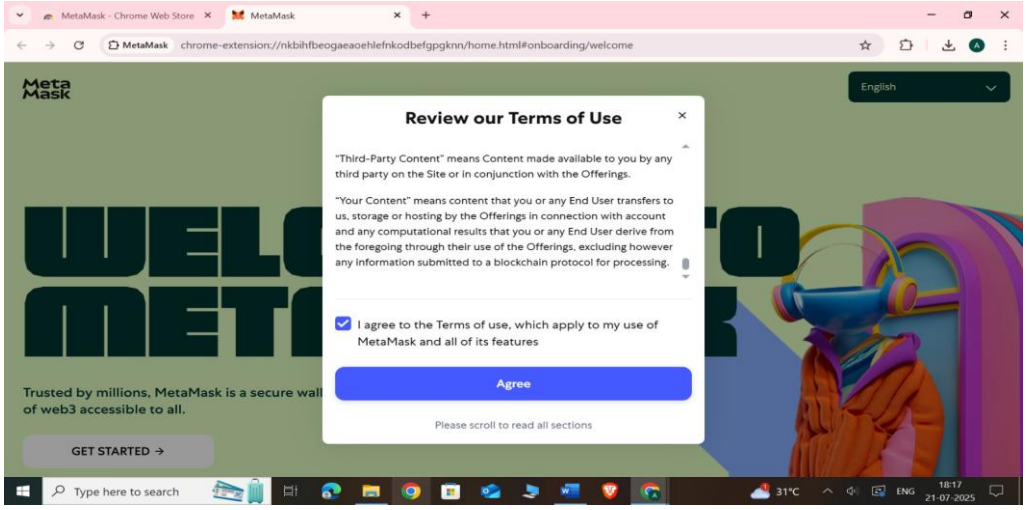
MetaMask
Brave Browser

**As applicable according to the experiment.*
Two sheets per experiment (10-20) to be used.

* Testing Phase: Compilation of Code (error detection)







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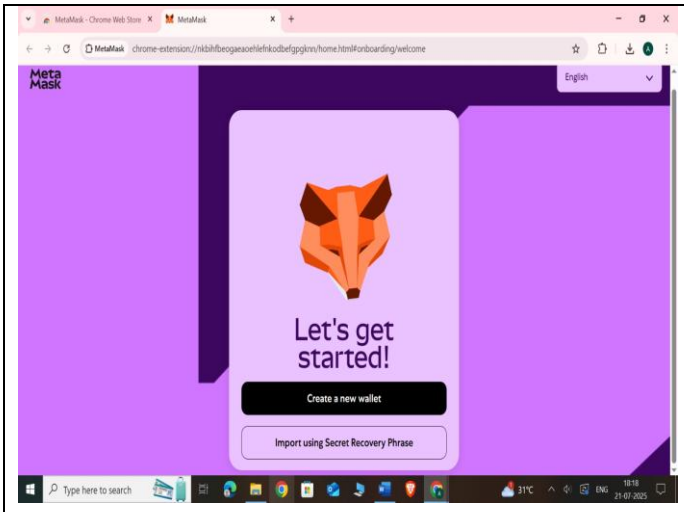

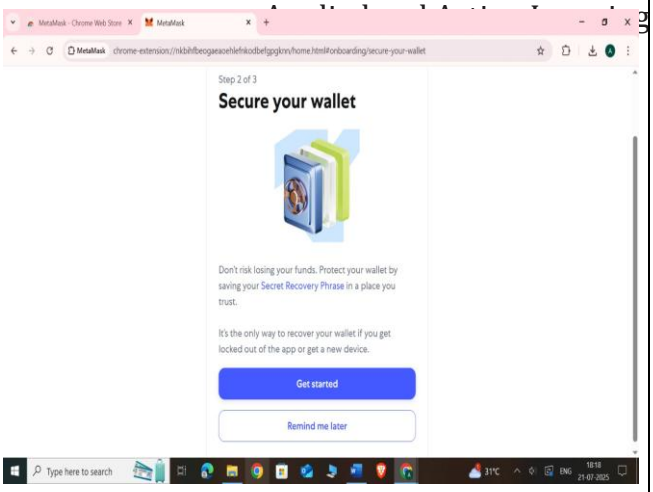

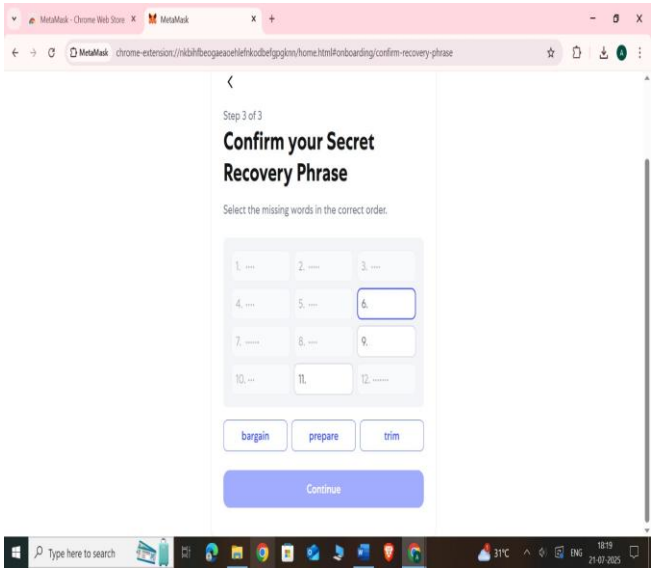

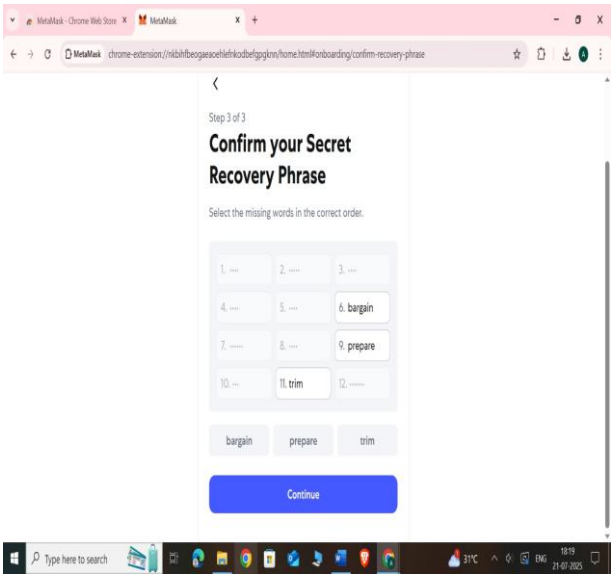

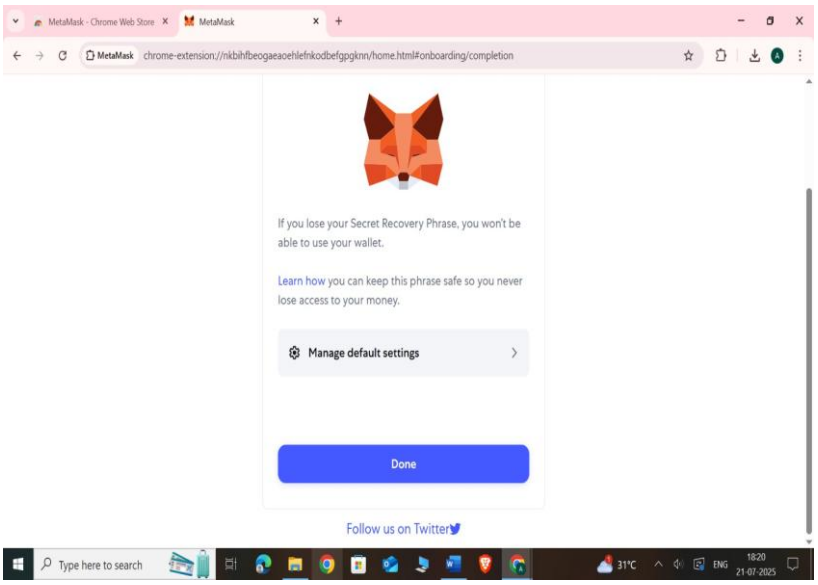

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* Implementation Phase: Final Output (no error)

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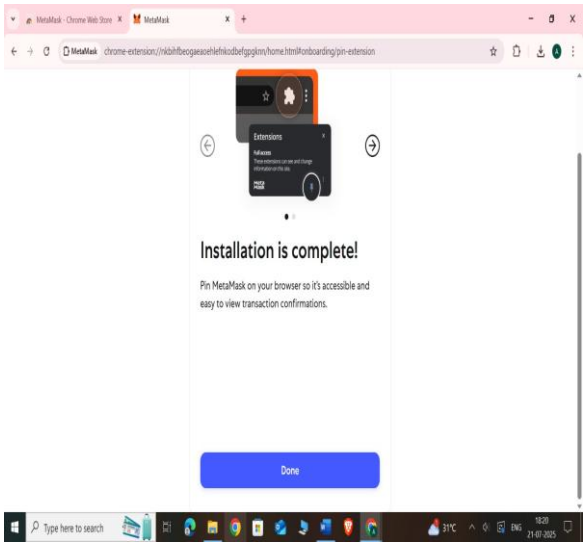

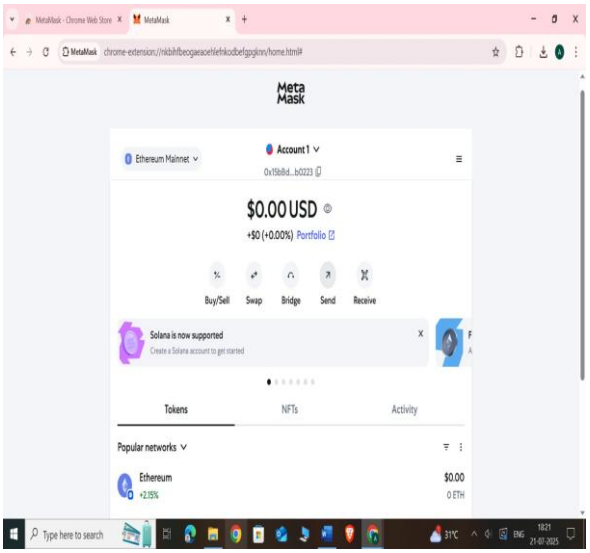

* Observations

- The seed phrase functions as the primary master key for regaining wallet access.
- Password protection can safeguard wallet access on a device, but it is not a replacement for securely backing up the seed phrase.
- Every wallet contains a public address (used to receive digital assets) and a private key (used to authorize and sign transactions).
- While the public address can be shared openly, the private key must always remain confidential.
- A wallet does not store cryptocurrency itself; instead, it stores the keys needed to access assets on the blockchain.
- MetaMask serves as both a key management system and a transaction authorization tool.

ASSESMENT

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.