



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 : Token Launch – Deploying a Token Locally**

### \* Coding Phase: Pseudo Code / Flow Chart / Algorithm

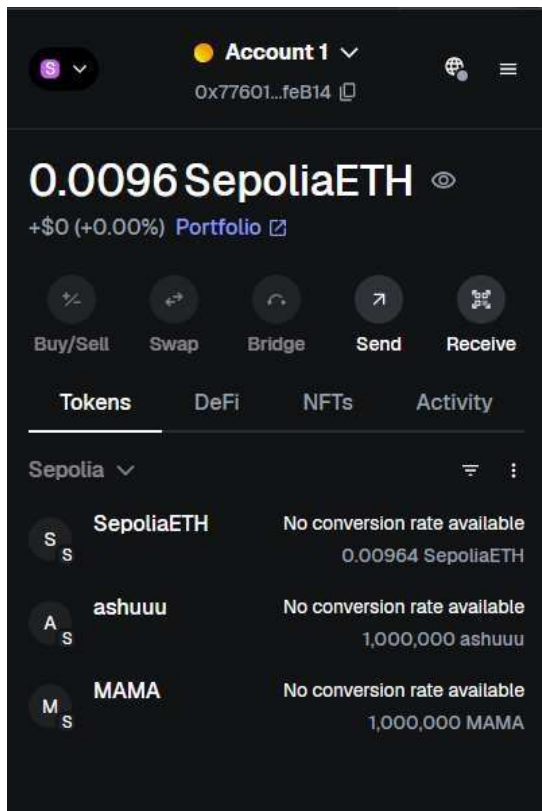
- ☐ **Initialize Environment** – Open Remix IDE and select the Solidity compiler.
- ☐ **Write Token Contract** – Use OpenZeppelin’s ERC-20 standard and set token details (name, symbol, supply).
- ☐ **Compile Contract** – Compile the .sol file using Solidity 0.8.x or a compatible version.
- ☐ **Connect Wallet** – Open MetaMask and switch to the Sepolia Testnet (or other testnet).
- ☐ **Deploy Contract** – In Remix, choose Injected Web3 and deploy; approve the transaction in MetaMask.
- ☐ **Retrieve Contract Address** – Copy the deployed contract address from Remix.
- ☐ **Add Token in MetaMask** – Use Import Tokens in MetaMask and paste the contract address.
- ☐ **Interact with Contract** – Use Remix to execute functions like mint, transfer, or balanceOf.
- ☐ **Swap in DeFi** – On a testnet DEX like Uniswap, connect wallet and swap ETH for your token.
- ☐ **Verify Transactions** – Check MetaMask activity or Etherscan for transaction confirmation.

### Software used

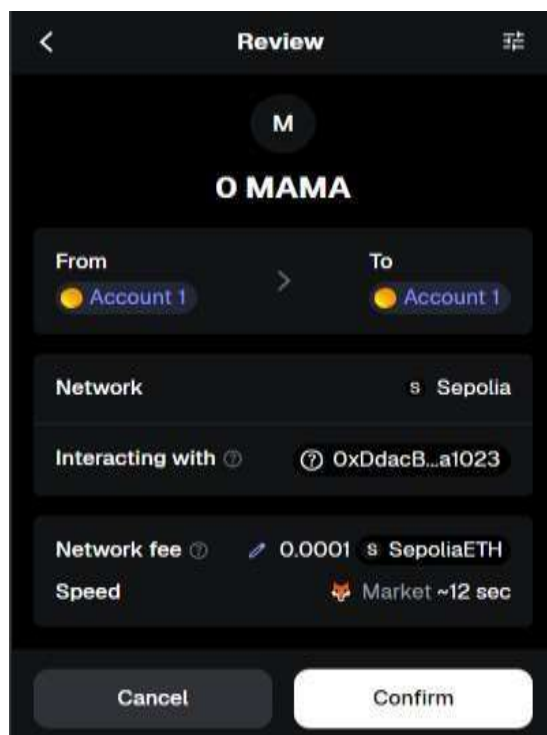
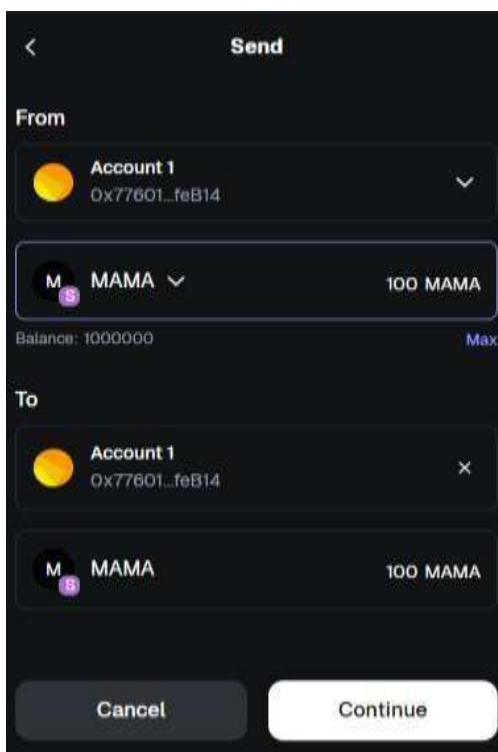
1. MetaMask Wallet
2. Remix IDE.
3. MS Word.
4. Brave for researching.

## \* Implementation Phase: Final Output (no error)

1. Firstly go to home page of MetaMask, then go to where you stored DAI tokens;

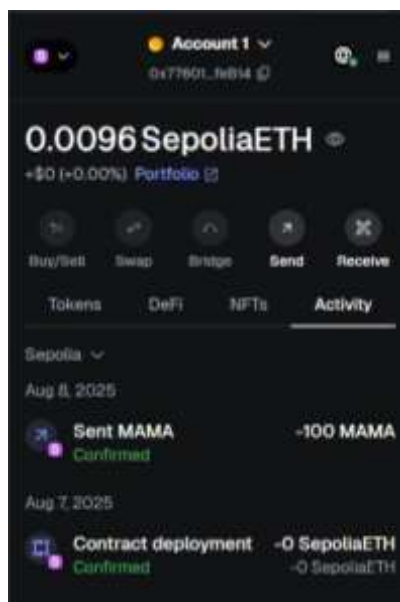


2. Then go to name of your token, tap on send option and add another one's wallet address;



## \* Implementation Phase: Final Output (no error)

3. Then transaction will complete within 12 sec;



### \* Observations:

The custom ERC-20 token was successfully deployed on Sepolia, imported into MetaMask, and swapped via Uniswap testnet. Transactions were confirmed within ~12 seconds, with gas fees deducted in testnet ETH, and token balances updated instantly in MetaMask.

## 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		
<b>Total</b>	<b>50</b>		

**Signature of the Student:**

Name :

Regn. No. :

**Signature of the Faculty:**