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RAMICTING THROUGH KNOWLES	Academic Year: Subject Na	me:	Subject Code:				
CENTURION UNIVERSITY Shaping Lives Empowering Communities!	Semester: Program: B	Branch: Specialization:					
Empowering Communities!	Date:						
Applied and Action Learning							

(Learning by Doing and Discovery)

Name of the Experiment: ERC-20 Basics – Tokenization Concepts
\*Coding Phase: Pseudo Code / Flow Chart / Algorithm

- 1. First we need to open Remix IDE
- 2. In the contracts folder create a Mytoken.sol file
- 3. Within .sol file we need to write our ERC-20 smart contract code
- 4. Then compile the code
- 5. Upon successful compilation choose Injected Provider-MetaMask as deployment environment
- 6. Then deploy the contract through metamask by confirming the transaction
- 7. Under deployed contracts section copy the contract address
- 8. Then through metamask wallet go to token section and select the deployed token
- 9. Then choose import tokens, under this section select sepolia network and paste the contract address in respective block and click next
- 10. Then click on import and our token will be imported successfully.
- 11. Then click on token section and select the imported token
- 12. Then click on send and enter the public address or domain name and click continue
- 13. Our token will be sent successfully

## \*software used:

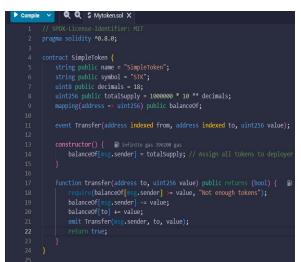
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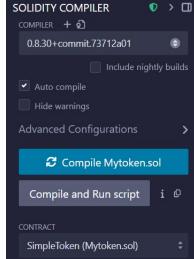
- > Web Browser
- ➤ Remix IDE
- MetaMask Wallet
- Sepolia faucet

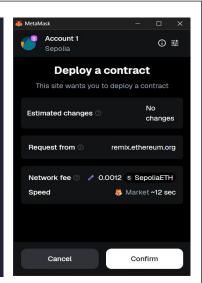
\* Testing Phase: Compilation of Code (error detection)

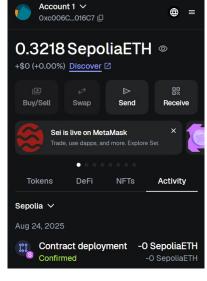
## **NO ERROR**

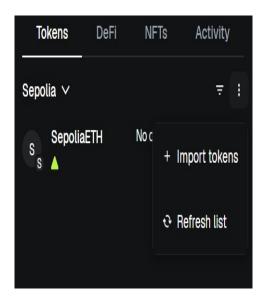
\* Implementation Phase: Final Output (no error)

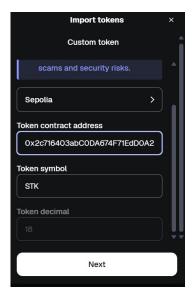




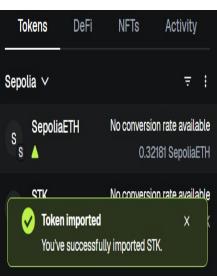


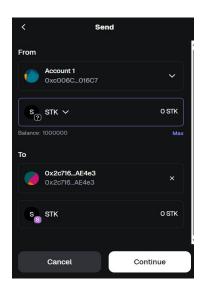


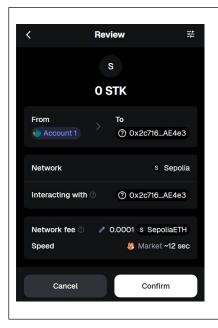


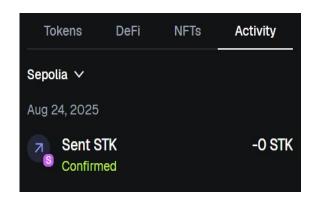












## \*Observation:

- ERC-20 defines a standard interface for fungible tokens on the Ethereum blockchain, ensuring compatibility across wallets and dApps.
- Each ERC-20 token includes key functions like transfer, approve, and transferFrom for secure and standardized token interactions.
- Tokenization allows real-world and digital assets to be represented as ERC-20 tokens, enabling easy trading and ownership on blockchain.
- Deploying ERC-20 tokens requires smart contract knowledge and a wallet like MetaMask to interact with Ethereum networks.

## **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	:
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Name:

Signature of the Faculty: Regn. No. :

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<sup>\*</sup> As applicable according to the experiment. Two sheets per experiment (10-20) to be used