Centurion University
Shaping Lives... Empowering Communities...

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 : Hello Solidity – Writing First Smart Contract

Objective/Aim:

To introduce students to Solidity and teach them how to write, compile, and deploy a basic smart contract using the Remix IDE.

Apparatus/Software Used:

Laptop or PC
Browser with Internet
Remix IDE
MetaMask wallet (connected to a test network like Sepolia)

Theory/Concept:

Solidity is a high-level, contract-oriented programming language used for developing smart contracts on the Ethereum blockchain.

Smart Contract: A self-executing contract with the terms directly written into code.

Remix IDE: A browser-based tool to write, compile, deploy, and debug Solidity contracts.

Procedure:

Step 1: Open a web browser and go to https://remix.ethereum.org.
Step 2: In Remix IDE, click on the **"File Explorer"** tab and create a new file named simple storage.sol.
Step 3: Type the Solidity code into the file:
Step 4: Click on the **"Solidity Compiler"** tab from the left sidebar.
Step 5: Select compiler version 0.8.x and click **"Compile** simple storage**.sol"**.
Step 6: Click on the **"Deploy & Run Transactions"** tab.

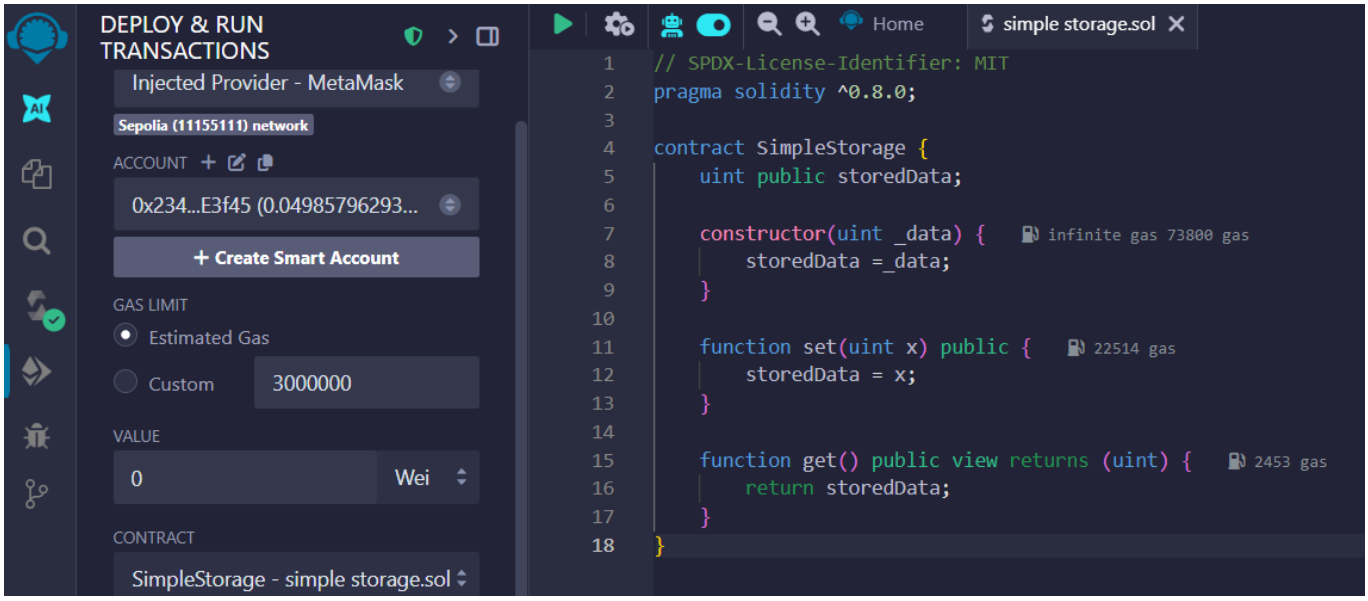

Fig: -code

Observation

File Created : - simple. Sol written in Remix
Contract Compiled : -No errors on compilation
Contract Deployed : -Visible in Deployed Contracts panel

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 Faculty:

Signature of the Student:
Name :
Regn. No.