VIT Vidyalankar Institute of Technology
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Department of Information Technology

Semester	B.E. Semester VIII – INFT (A)
Subject	Blockchain Lab
Laboratory Teacher	Prof. Vinita Bhandiwad
Laboratory	L07C

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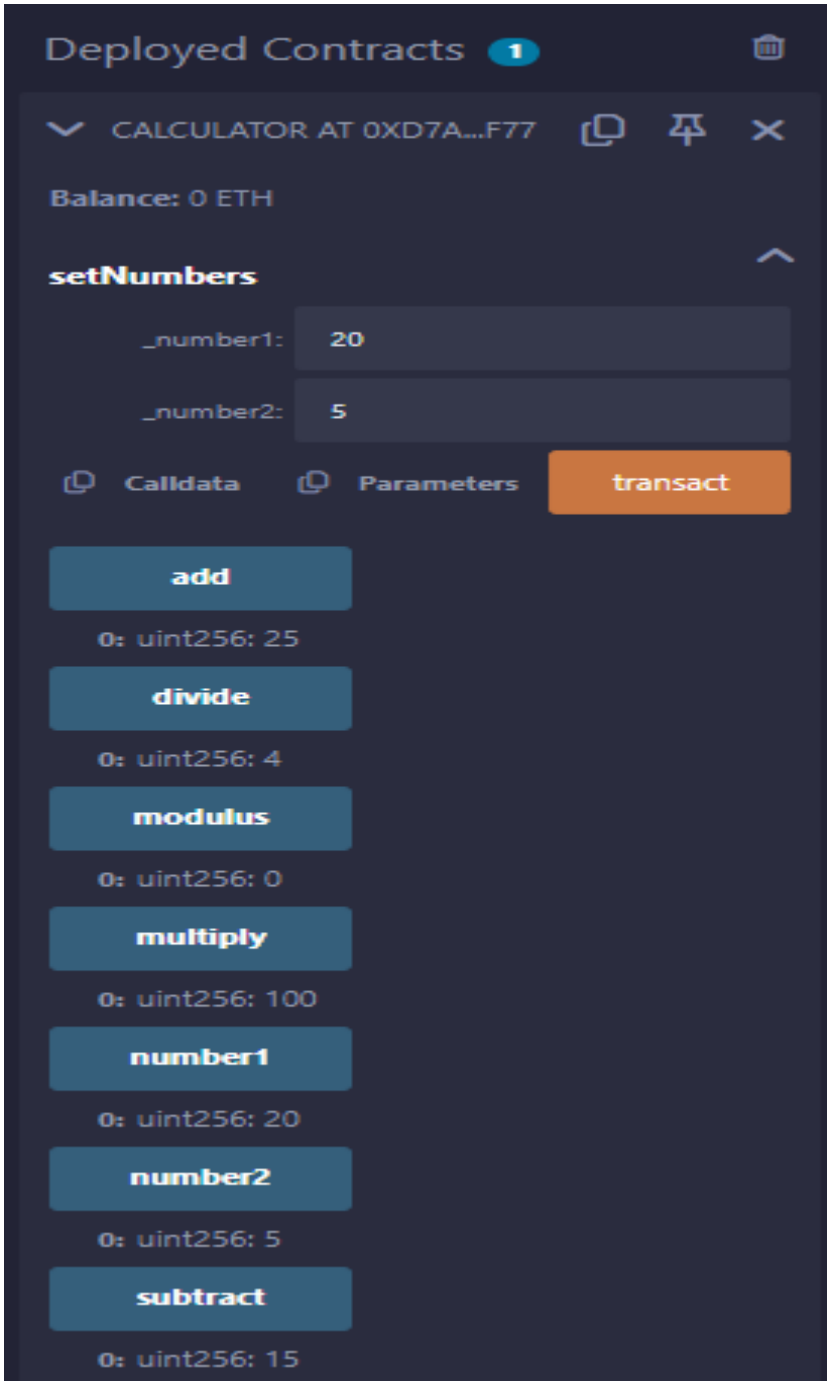
Experiment Number	03
Problem Statement	Design and implement Calculator using solidity and REMIX IDE
Code	

```
// SPDX-License-Identifier: MIT
pragma solidity ^0.8.0;

contract Calculator {
    uint256 public number1; // Stores the first number
    uint256 public number2; // Stores the second number

    // Function to set numbers
    function setNumbers(uint256 _number1, uint256 _number2) public {
        number1 = _number1;
        number2 = _number2;
    }

    // Add the two stored numbers
    function add() public view returns (uint256) {
        return number1 + number2;
    }

    // Subtract the two stored numbers
    function subtract() public view returns (uint256) {
        require(number1 >= number2, "Result would be negative");
        return number1 - number2;
    }

    // Multiply the two stored numbers
    function multiply() public view returns (uint256) {
        return number1 * number2;
    }

    // Divide the two stored numbers
    function divide() public view returns (uint256) {
        require(number2 != 0, "Cannot divide by zero");
        return number1 / number2;
    }

    // Modulus of the two stored numbers
    function modulus() public view returns (uint256) {
        require(number2 != 0, "Cannot take modulus by zero");
        return number1 % number2;
    }
}
```

Output	 Deployed Contracts 1 CALCULATOR AT 0XD7A...F77 Balance: 0 ETH setNumbers _number1: 20 _number2: 5 Calldata Parameters transact add 0: uint256: 25 divide 0: uint256: 4 modulus 0: uint256: 0 multiply 0: uint256: 100 number1 0: uint256: 20 number2 0: uint256: 5 subtract 0: uint256: 15