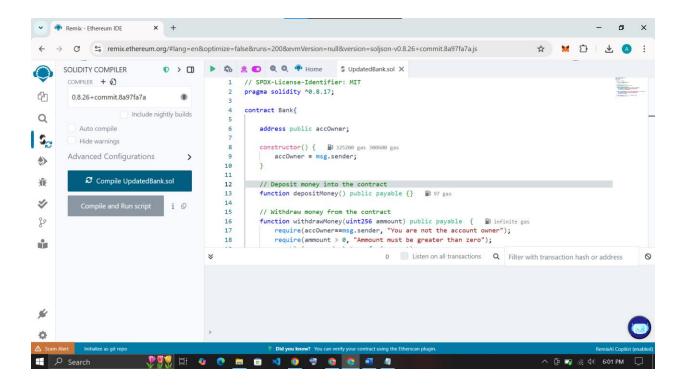
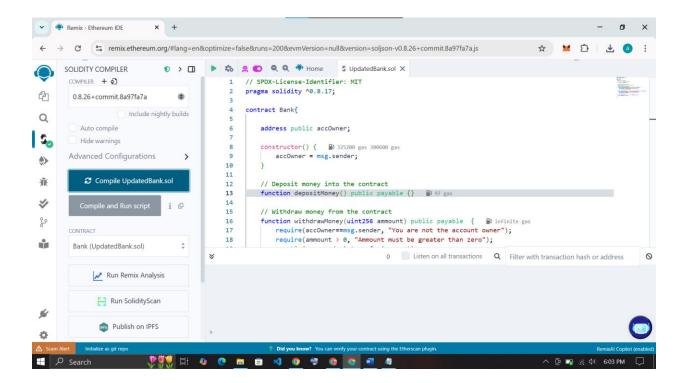
Assignment: 04

Step 1: Open Remix IDE and create a solidity contract by name Bank.sol and use this below code

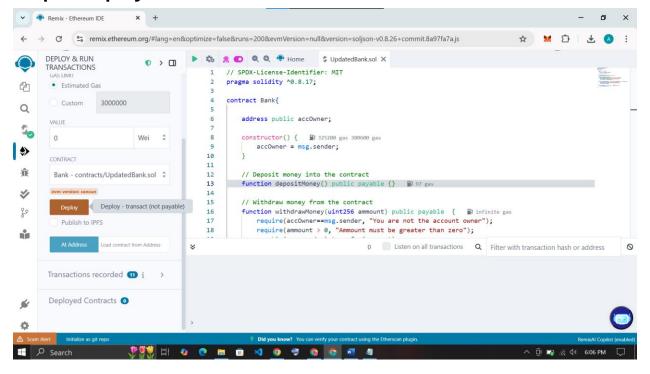
```
// SPDX-License-Identifier: MIT
pragma solidity ^0.8.17;
contract Bank{
    address public accOwner;
    constructor() {
        accOwner = msg.sender;
    }
    // Deposit money into the contract
    function depositMoney() public payable {}
    // Withdraw money from the contract
    function withdrawMoney(uint256 ammount) public payable {
        require(accOwner==msg.sender, "You are not the account
owner");
        require(ammount > 0, "Ammount must be greater than zero");
        payable(msg.sender).transfer(ammount);
    }
    function transferMoney(address payable recipient, uint256 ammount)
public{
        require(accOwner==msg.sender, "You are not the account
owner");
        require(ammount > 0, "Ammount must be greater than zero");
        recipient.transfer(ammount);
    }
    function showBalance() public view returns (uint256) {
        return address(this).balance;
    }
}
```



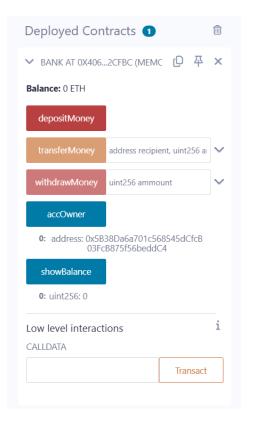
Step 2: Compile the .sol file

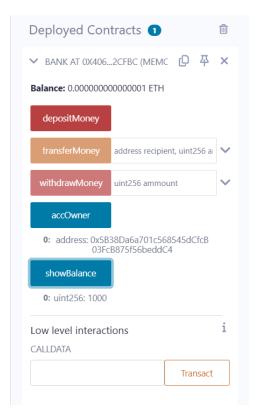


Step 3: Deploy the contract

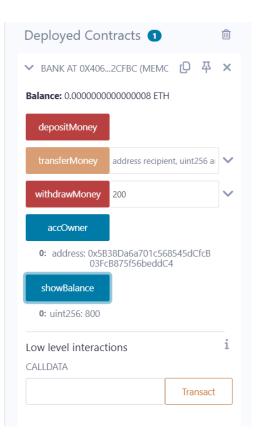


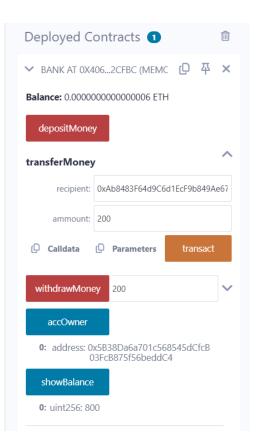
Step 4: Interact with the contract

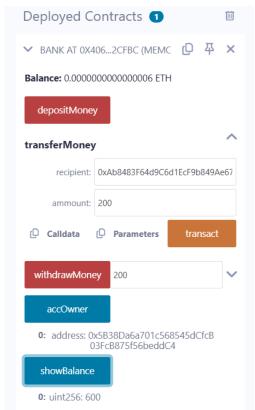




Deployed Contracts 1			
➤ BANK AT 0X406	2CFBC (MEM	4 9 7	×
Balance: 0.00000000	00000008 ETI	Н	
depositMoney			
transferMoney	address recipi	ent, uint256 a	~
withdrawMoney	200		~
accOwner			
0: address: 0x5B: 03Fc	38Da6a701c56 B875f56bedd		
showBalance			
0 : uint256: 1000			
Low level interactions			i
CALLDATA			
		Transac	t







Sender / accOwner address :
0x5B38Da6a701c568545dCfcB03FcB875f56beddC4

Receiver address: 0x406AB5033423Dcb6391Ac9eEEad73294FA82Cfbc

Balance = 800 Wei

Balance = 800 - amount

Balance = 600 Wei in Owners account

This is the transaction log from terminal

status	0x1 Transaction mined and execution succeed
transactio	0x5e5cc611ae7ae440487881a0e7f9539df4ccfc6dcfe2b76b8950ec9ab6a76
n hash	06a
block hash	0xe07dd6a9f65a3cb61c9423c69af5edda494068fd3c1ae9d65bcaa2b49998b
	7ad
block	56
number	
from	0x5B38Da6a701c568545dCfcB03FcB875f56beddC4
to	Bank.transferMoney(address,uint256)
	0x406AB5033423Dcb6391Ac9eEEad73294FA82Cfbc
gas	38927 gas
transactio	33849 gas
n cost	
execution	12277 gas
cost	
input	0xfee000c8
output	0x
decoded	{ "address recipient":
input	"0xAb8483F64d9C6d1EcF9b849Ae677dD3315835cb2", "uint256
	ammount": "200" }
decoded	{}
output	
logs	[]
raw logs	[]