

## Code:

// SPDX-License-Identifier: GPL-3.0

pragma solidity ^0.8.0;

contract Bank {

    address public owner;

    uint public balance;

    constructor() {

        owner = msg.sender;

    }

    function deposit() external payable {

        balance += msg.value;

    }

    function withdraw(uint \_amount) external {

        require(balance >= \_amount, "Insufficient balance!");

        payable(owner).transfer(\_amount);

        balance -= \_amount;

    }

}

## Output:

The screenshot displays the Remix IDE interface with the following components:

- Top Bar:** Shows the current workspace as 'Assignment-3.sol' and the active file 'Bank Smart Contract'.
- Left Panel:** Contains the 'DEPLOY & RUN TRANSACTIONS' section. It shows the contract 'BANK AT 0xD91...39138' with a balance of 0.000000000000000000 ETH. The 'deposit' button is highlighted in red, and the 'withdraw' button is highlighted in orange. The 'owner' field is set to the address 0x58380a6a701c56854dcfc803fc8875f56beddC4.
- Center Panel:** Displays the Solidity code for the 'Bank' contract, including the SPDX license identifier, pragma statement, and the constructor, deposit, and withdraw functions.
- Right Panel:** Shows the transaction history and debug logs. The logs indicate that the contract was deployed successfully, and the 'deposit' and 'withdraw' functions were called. The 'deposit' function was called with a value of 100 wei, and the 'withdraw' function was called with a value of 50 wei.

		0	<input type="checkbox"/> Listen on all transactions	🔍	Filter with transaction hash or address	
✓	[vm] from: 0x5B3...eddC4 to: Bank.(constructor) value: 0 wei data: 0x608...a0033 logs: 0 hash: 0xa2a...56e7b					Debug ▼
	transact to Bank.deposit pending ...					
✓	[vm] from: 0x5B3...eddC4 to: Bank.deposit() 0xd91...39138 value: 0 wei data: 0xd0e...30db0 logs: 0 hash: 0xde4...8498c					Debug ▼
	call to Bank.balance					
CALL	[call] from: 0x5B38Da6a701c568545dCfcB03FcB875f56beddC4 to: Bank.balance() data: 0xb69...ef8a8					Debug ▼
	transact to Bank.deposit pending ...					
✓	[vm] from: 0x5B3...eddC4 to: Bank.deposit() 0xd91...39138 value: 100 wei data: 0xd0e...30db0 logs: 0 hash: 0xe1f...0f464					Debug ▼
	call to Bank.balance					
CALL	[call] from: 0x5B38Da6a701c568545dCfcB03FcB875f56beddC4 to: Bank.balance() data: 0xb69...ef8a8					Debug ▼
	transact to Bank.withdraw pending ...					
✓	[vm] from: 0x5B3...eddC4 to: Bank.withdraw(uint256) 0xd91...39138 value: 0 wei data: 0x2e1...00032 logs: 0 hash: 0x264...72538					Debug ▼
	call to Bank.balance					