**Assignment No: 3**

**Code:**

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

contract BankTransaction { address public owner;

mapping(address => uint) public balances;

constructor() {

owner = msg.sender;

}

// Function to deposit funds

function deposit() public payable {

require(msg.value > 0, "Deposit amount must be greater than 0"); balances[msg.sender] += msg.value;

}

// Function to withdraw funds

function withdraw(uint amount) public {

require(amount > 0, "Withdrawal amount must be greater than 0"); require(balances[msg.sender] >= amount, "Insufficient balance");

balances[msg.sender] -= amount; payable(msg.sender).transfer(amount);

}

// Function to check the balance of an account function getBalance() public view returns (uint) {

return balances[msg.sender];

}

}

**Output:**

