// SPDX-License-Identifier: MIT

pragma solidity ^0.8.18;

contract Bank {

   mapping(address => uint) private balances;

   event Deposit(address indexed account, uint amount);

   event Withdrawal(address indexed account, uint amount);

   function deposit(uint amount) public {

       require(amount > 0, "Amount must be greater than zero.");

       balances[msg.sender] += amount;

       emit Deposit(msg.sender, amount);

   }

   function withdraw(uint amount) public {

       require(amount > 0, "Amount must be greater than zero.");

       require(balances[msg.sender] >= amount, "Insufficient balance.");

       balances[msg.sender] -= amount;

       emit Withdrawal(msg.sender, amount);

   }

   function getBalance() public view returns (uint) {

       return balances[msg.sender];

   }

}