Practical No: 3

Write a smart contract on a test network, for Bank account of a customer for following operations:

• Deposit money • Withdraw Money • Show balance

```
Code:
```

```
// SPDX-License-Identifier: MIT
pragma solidity ^0.8.0;
contract Bank {
  // State variable to store the balance of the account
  mapping(address => uint) private balances;
  // Event to emit when a deposit is made
  event Deposit(address indexed account, uint amount);
  // Event to emit when a withdrawal is made
  event Withdraw(address indexed account, uint amount);
  // Function to deposit money into the bank account
  function deposit() public payable {
    require(msg.value > 0, "Deposit amount must be greater than zero");
    balances[msg.sender] += msg.value;
    emit Deposit(msg.sender, msg.value);
  }
  // Function to withdraw money from the bank account
  function withdraw(uint _amount) public {
    require(balances[msg.sender] >= _amount, "Insufficient funds");
    payable(msg.sender).transfer(_amount);
    balances[msg.sender] -= _amount;
    emit Withdraw(msg.sender, amount);
  }
  // Function to check the balance of the bank account
  function getBalance() public view returns (uint) {
    return balances[msg.sender];
  }
```

Output:



