

BT Ass3

// SPDX-License-Identifier: UNLICENSED

pragma solidity > 0.7.0;

contract Bank{

mapping (address => uint) public user_account;

mapping (address => bool) public user_exist;

function create_account() public payable returns(string memory)

{

require(user_exist[msg.sender] == false,"Account Already Exist");

user_account[msg.sender] = msg.value;

user_exist[msg.sender] = true;

return "Account Created Successfully";

}

function deposit(uint amount) public payable returns(string memory)

{

require(user_exist[msg.sender]==true,"Account should be created first");

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

user_account[msg.sender] += amount;

return "Money Deposited Successfully";

}

function withdraw(uint amount) public payable returns(string memory)

{

require(user_exist[msg.sender] == true,"Account should be created first");

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

require(user_account[msg.sender] >= amount,"Ammount entered is greater than amount");

user_account[msg.sender] -= amount;

return "Money withdrawal done successfully";

```
}  
function account_balance() public view returns( uint){  
    return user_account[msg.sender];  
}  
function account_exist() public view returns(bool)  
{  
    return user_exist[msg.sender];  
}  
  
}
```