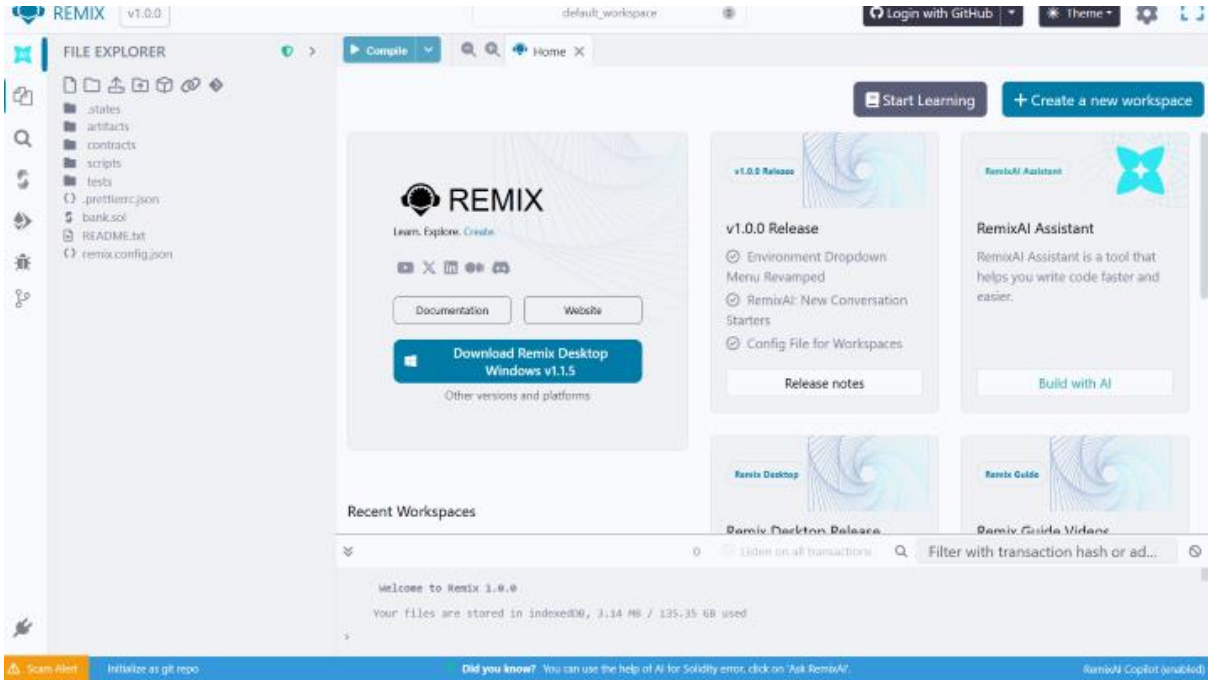
ASSIGNMENT NO:03

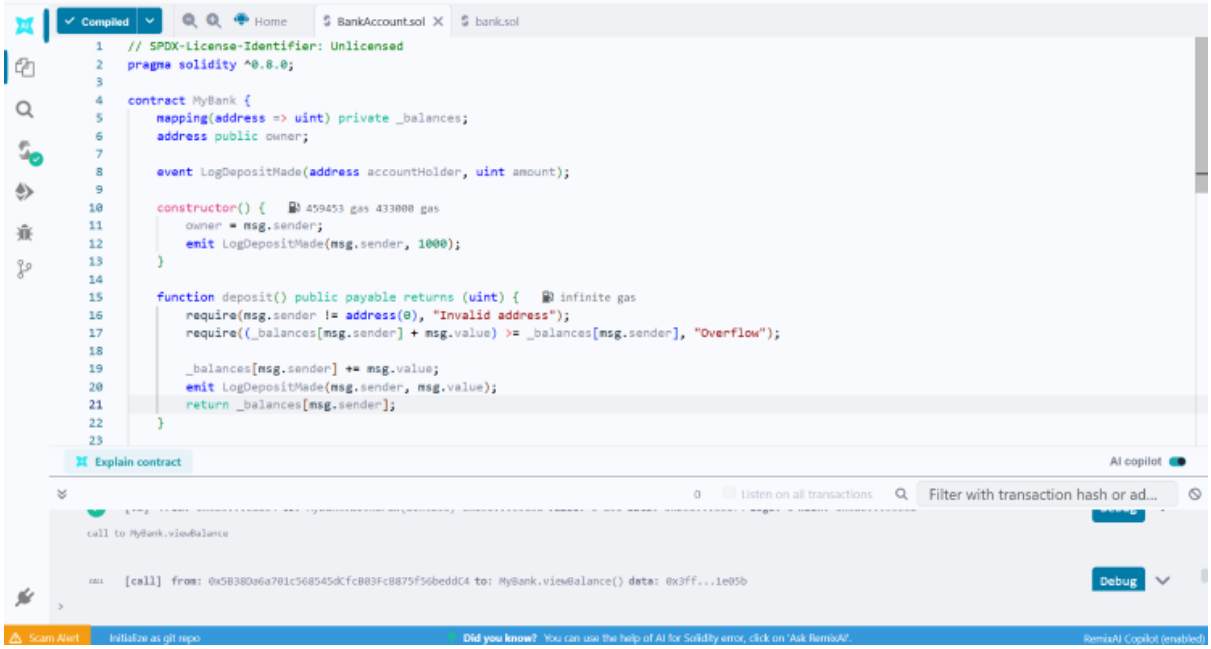
AIM: Write a smart contract on a test network, for Bank account of a customer for following operations:

- **Deposit money**
- **Withdraw Money**
- **Show balance**

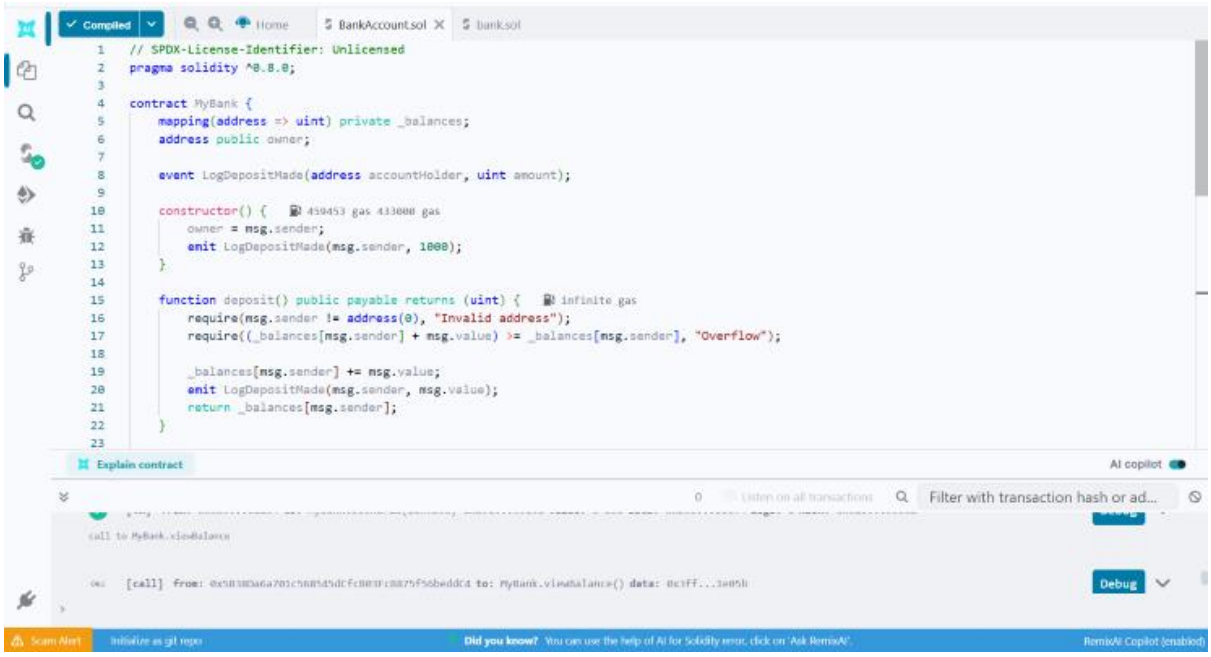
STEP 1:



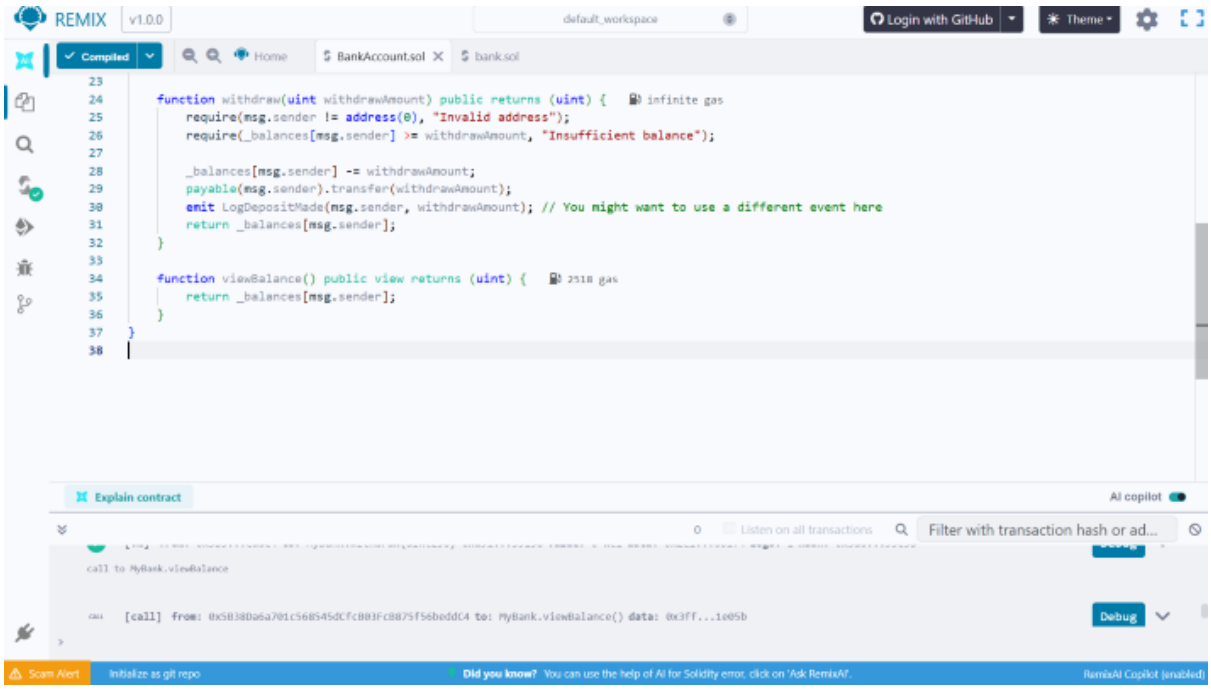
STEP 2:



STEP 3:


Compiled
Home
BankAccount.sol
bank.sol
// SPDX-License-Identifier: Unlicensed
pragma solidity ^0.8.0;
contract MyBank {
mapping(address => uint) private _balances;
address public owner;
event LogDepositMade(address accountHolder, uint amount);
constructor() { 459453 gas 433000 gas
owner = msg.sender;
emit LogDepositMade(msg.sender, 1000);
}
function deposit() public payable returns (uint) { infinite gas
require(msg.sender != address(0), "Invalid address");
require((_balances[msg.sender] + msg.value) >= _balances[msg.sender], "Overflow");
_balances[msg.sender] += msg.value;
emit LogDepositMade(msg.sender, msg.value);
return _balances[msg.sender];
}
Explain contract
AI copilot
Filter with transaction hash or ad...
call to MyBank.viewBalance
[call] from: 0x5B38Da6a701c568545dCfcB03FcB875f56beddC4 to: MyBank.viewBalance() data: 0x3ff...1005b
Debug
Scam Alert
Initialize as git repo
Did you know? You can use the help of AI for Solidity error, click on 'Ask RemixAI'.
RemixAI Copilot (enabled)

STEP 4:


REMIX
v1.0.0
default_workspace
Login with GitHub
Theme
Compiled
Home
BankAccount.sol
bank.sol
function withdraw(uint withdrawAmount) public returns (uint) { infinite gas
require(msg.sender != address(0), "Invalid address");
require(_balances[msg.sender] >= withdrawAmount, "Insufficient balance");
_balances[msg.sender] -= withdrawAmount;
payable(msg.sender).transfer(withdrawAmount);
emit LogDepositMade(msg.sender, withdrawAmount); // You might want to use a different event here
return _balances[msg.sender];
}
function viewBalance() public view returns (uint) { 2518 gas
return _balances[msg.sender];
}
}
Explain contract
AI copilot
Filter with transaction hash or ad...
call to MyBank.viewBalance
[call] from: 0x5B38Da6a701c568545dCfcB03FcB875f56beddC4 to: MyBank.viewBalance() data: 0x3ff...1005b
Debug
Scam Alert
Initialize as git repo
Did you know? You can use the help of AI for Solidity error, click on 'Ask RemixAI'.
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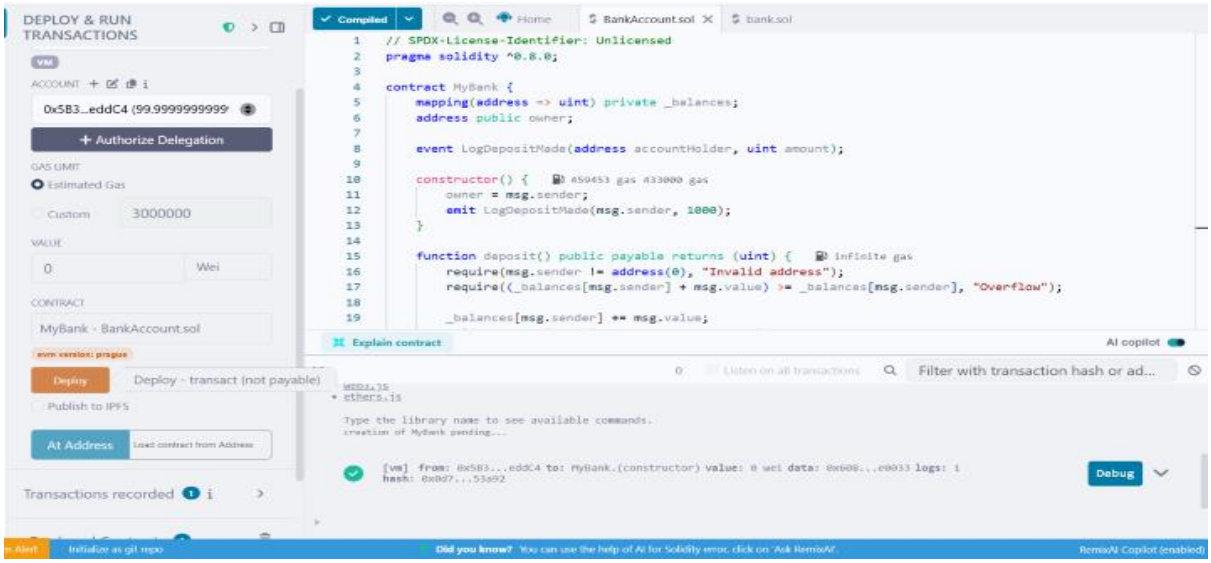
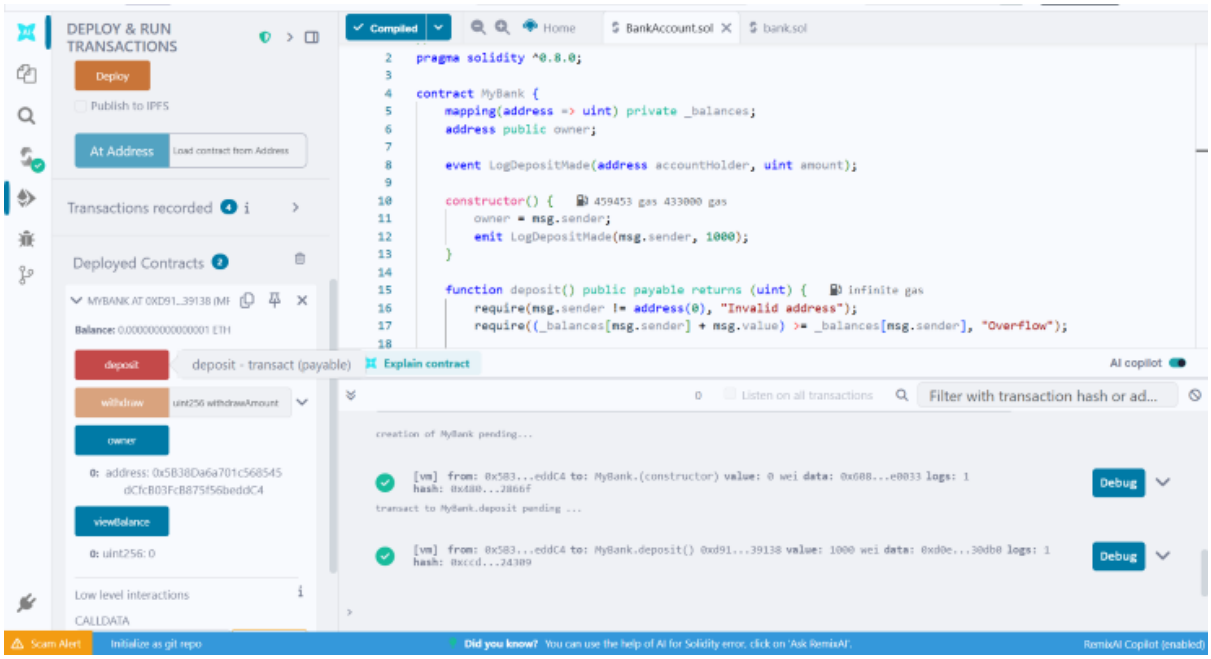
STEP 5:

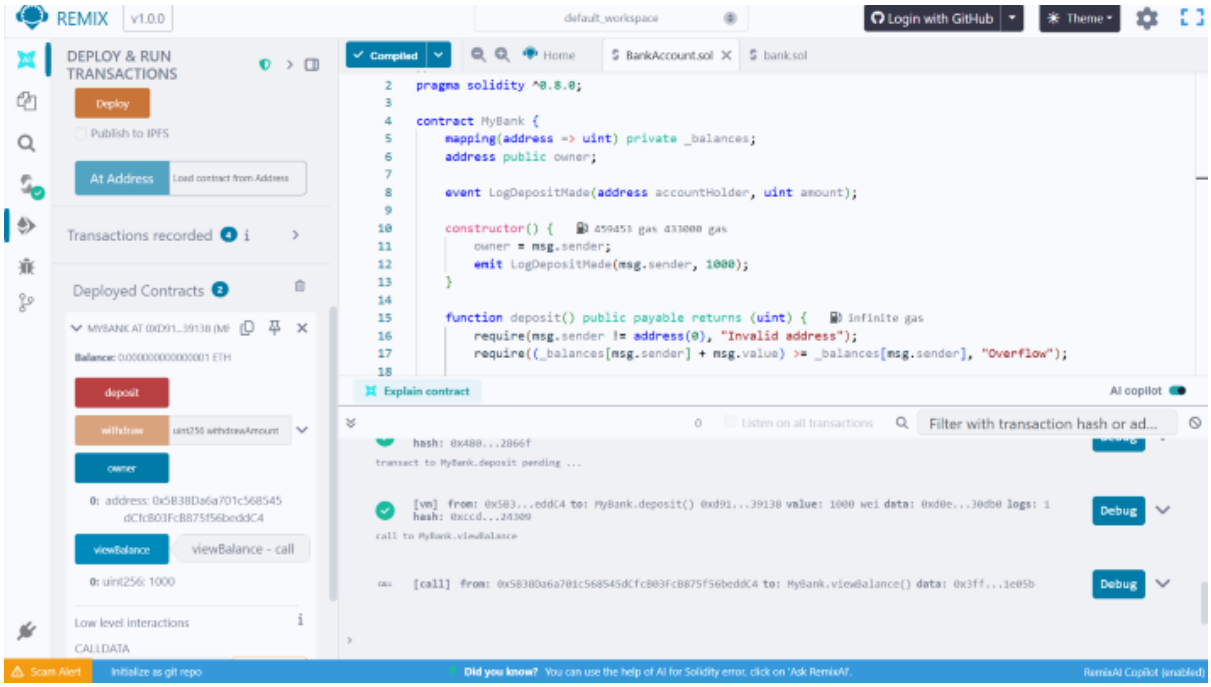
- **Deploy:**



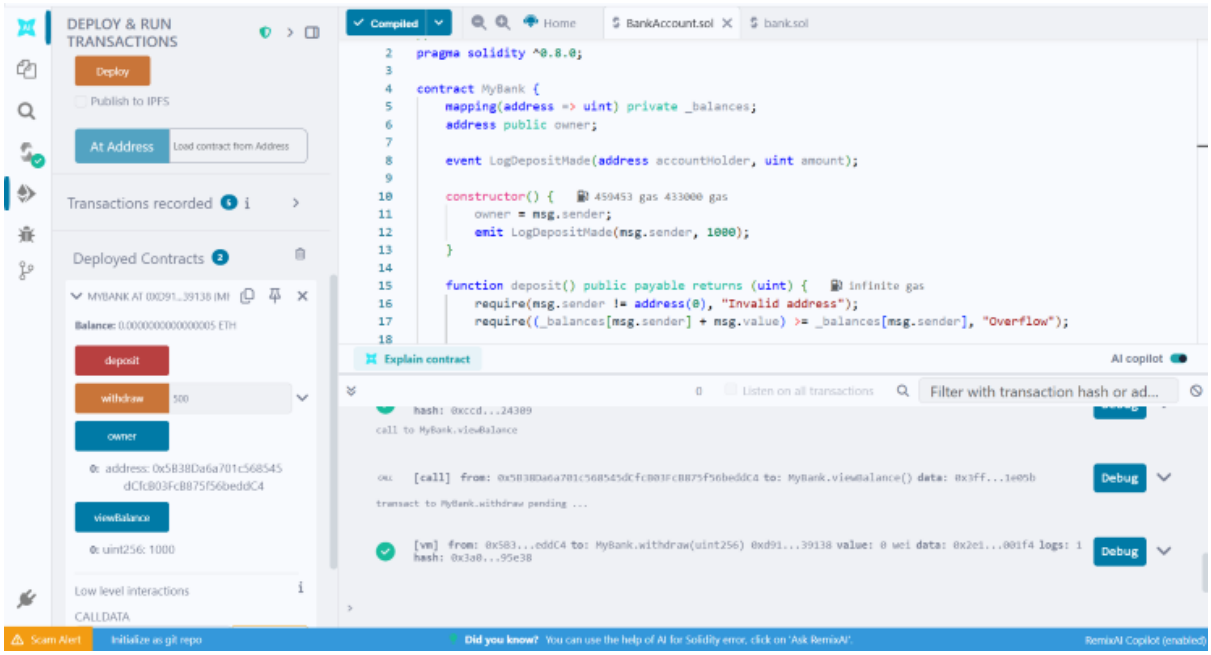
- **Deposit money:**



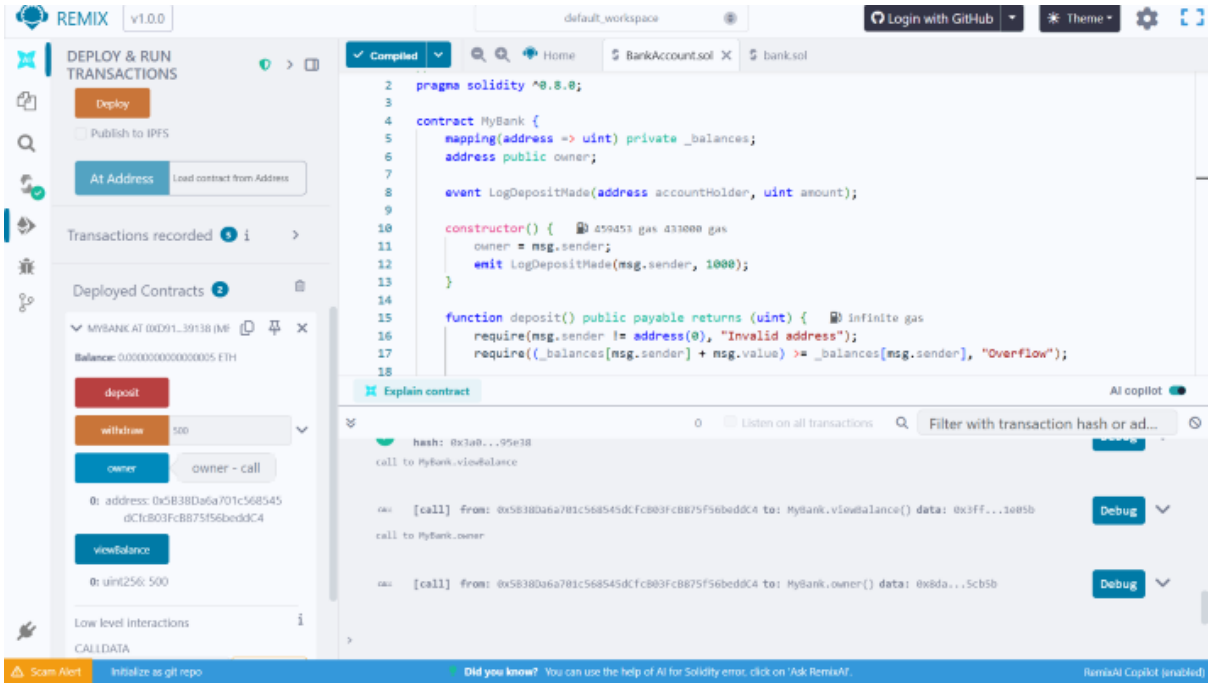
- **Show balance after Deposit money:**



- **Withdraw Money**



- **Show Balance after Withdraw Money**



- **Check Owner:**