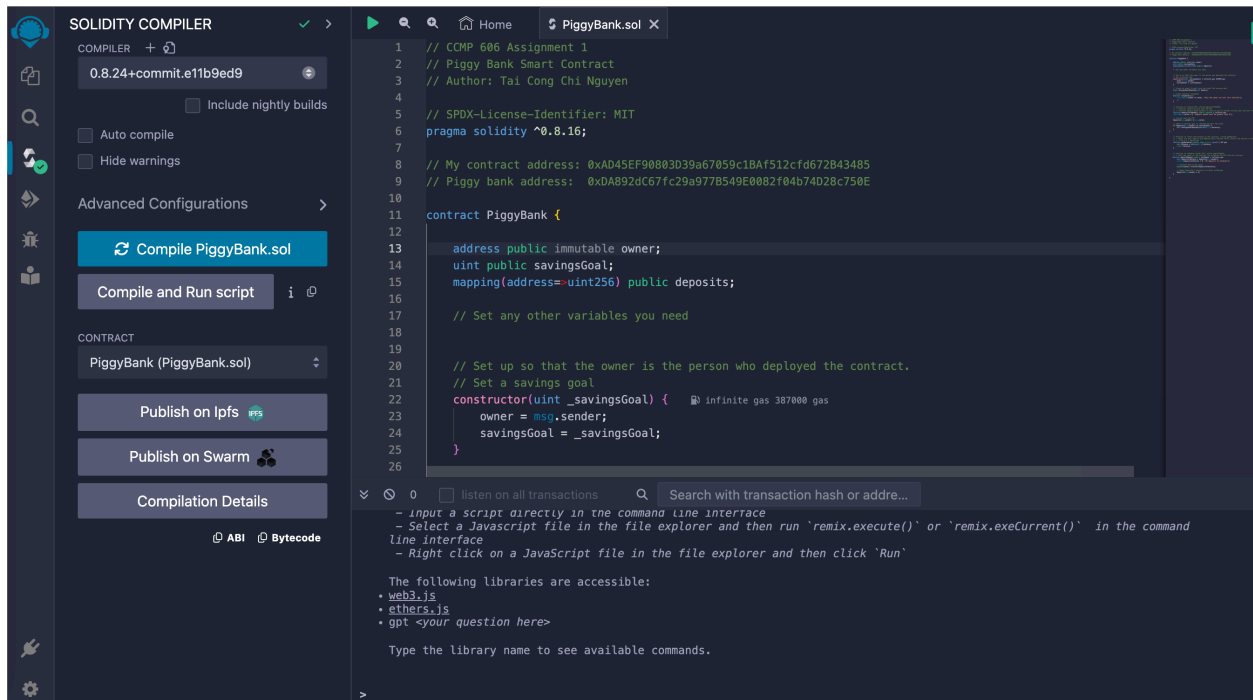
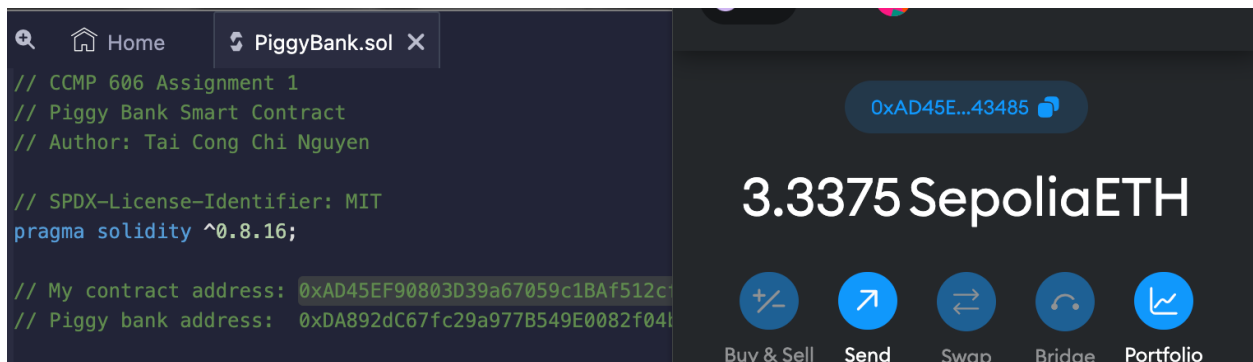


1. PiggyBank.sol has no compile errors on Remix IDE



2. Enough Sepolia ETH on MetaMask



3. Smart contract address on the Etherscan webpage

Sepolia Testnet

Search by Address / Txn Hash / Block / Token

Etherscan

Home Blockchain Tokens NFTs Misc

Address 0xAD45EF90803D39a67059c1BAf512cfd672B43485

More

Overview

ETH BALANCE

3.337518008251427449 ETH

TOKEN HOLDINGS

\$0.00 (1 Tokens)

More Info

LAST TXN SENT

0xe508653d5954... from 27 secs ago

FIRST TXN SENT

0x8148efc9cc20a... from 147 days 13 hrs ago

Multichain Info

No addresses found

4. Contract balance on Remix IDE

DEPLOY & RUN TRANSACTIONS

ENVIRONMENT

Injected Provider - MetaMask

Sepolia (11155111) network

ACCOUNT

0xAD4...43485 (3.337518008251427449 ether)

PiggyBank.sol

```

1 // CCMP 606 Assignment 1
2 // Piggy Bank Smart Contract
3 // Author: Tai Cong Chi Nguyen
4
5 // SPDX-License-Identifier: MIT
6 pragma solidity ^0.8.16;
7
8 // My contract address: 0xAD45EF90803D39a67059c1BAf512cfd672B43485
9 // Piggy bank address: 0xDA892dC67fc29a977B549E0082f04b74D28c750E

```

5. depositToTheBank

DEPLOY & RUN TRANSACTIONS

ENVIRONMENT

Injected Provider - MetaMask

Sepolia (11155111) network

ACCOUNT

0xAD4...43485 (2.8373782 ether)

GAS LIMIT

3000000

VALUE

0 Wei

CONTRACT

PiggyBank - contracts/PiggyBank.sc

evm version: shanghai

Deploy 2

Publish to IPFS

At Address Load contract from Address

Transactions recorded 2

Deployed Contracts

PIGGYBANK AT 0x165...E1312

Balance: 0.5 ETH

depositToTh...

```

36
37 // Function to receive ETH, called depositToTheBank
38 // -- Function should log who sent the ETH
39 // -- Function should check balance to know if you've reached savings goal and emit the event if you have.
40 function depositToTheBank() public payable {
41     require(msg.value > 0, "Deposit amount must be greater than 0");
42
43     // Log who sent the ETH
44     deposits[msg.sender] += msg.value;
45
46     // Check if savings goal is reached and emit the event
47     if (deposits[msg.sender] >= savingsGoal) {
48         emit SavingsGoalReached(address(this).balance);
49     }
50 }
51

```

view on etherscan

[block:5285022 txIndex:72] from: 0xad4...43485 to: PiggyBank.depositToTheBank() 0x165...e1312 value: 5000000000000000 wei data: 0xffff...df75f Logs: 1 hash: 0xd9e...59180

status

0x1 Transaction mined and execution succeed

transaction hash

0x826c8f8db7371d633695c10e9295b9cb1cdc56efa758253e651f59d92ad56795

block hash

0xd9e94b74f23bd276fef85ee7b42e0b9942dc80d99dd540583608a231e4359180

block number

5285022

from

0xad45ef90803d39a67059c1ba512cfd672b43485

to

PiggyBank.depositToTheBank() 0x165d39ecd4da594da79c3b73d1376ed7ef6e1312

gas

47572 gas

transaction cost


47188 gas

input

0xffff...df75f

Sepolia Testnet

Search by Address / Txn Hash / B


 Etherscan

Transaction Details < >


Overview Logs (1) State

[This is a Sepolia Testnet transaction only]


? Transaction Hash:

0x826c8f8db7371d633695c10e9295b9cb1cdc56efa758253e651f59d92ad56795 


? Status:

 Success


? Block:

 5285022 8 Block Confirmations




? Timestamp:

 2 mins ago (Feb-14-2024 06:09:12 AM +UTC)


? From:

0xAD45EF90803D39a67059c1BAf512cfd672B43485 

? To:

 0x165D39ECD4dA594DA79c3B73d1376eD7Ef6e1312  

? Value:

 0.5 ETH (\$0.00)

? Transaction Fee:

0.00013979374359564 ETH (\$0.00)

? Gas Price:

2.96248503 Gwei (0.00000000296248503 ETH)

6. getBalance

DEPLOY & RUN TRANSACTIONS ✓ >

VALUE: 0 Wei

CONTRACT: PiggyBank - contracts/PiggyBank.sc

evm version: shanghai

Deploy 2

Publish to IPFS

At Address Load contract from Address

Transactions recorded 2 ① >

Deployed Contracts

PIGGYBANK AT 0x165...E1312 (① ×)

Balance: 0.5 ETH

depositToTh...

emptyTheBa...

deposits address

getBalance

0: uint256: 5000000000000000000

owner

```

52
53 // Function to return the balance of the contract, called getBalance
54 // -- Note: you will need to use address(this).balance which returns the balance in Wei.
55 // -- 1 Eth = 1 * 10**18 Wei
56 function getBalance() public view returns (uint) { 352 gas
57     uint balance = address(this).balance;
58     return balance;
59 }
60
61
62 // Function to withdraw (send) ETH, called emptyTheBank
63 // -- Only the owner of the contract can withdraw the ETH from the contract
64 function emptyTheBank() public onlyOwner { 0 infinite gas
65     uint depositorBalance = deposits[msg.sender];
66     require(depositorBalance > 0, "No deposits to withdraw");
67
68     // Transfer ETH to the owner

```

call to PiggyBank.getBalance

CALL [call] from: 0xAD45EF90803D39a67059c1BAf512cfd672B43485 to: PiggyBank.getBalance() data: 0x120...65fe0

from 0xAD45EF90803D39a67059c1BAf512cfd672B43485 ①

to PiggyBank.getBalance() 0x165D39ECD4dA594DA79c3B73d1376eD7Ef6e1312 ①

input 0x120...65fe0 ①

decoded input {} ①

decoded output { "0": "uint256: 5000000000000000000" } ①

logs [] ① ①

7. getDepositsValue

DEPLOY & RUN TRANSACTIONS ✓ >

0xAD4...43485 (2.8373782 ① ②)

GAS LIMIT: 3000000

VALUE: 0 Wei

CONTRACT: PiggyBank - contracts/PiggyBank.sc

evm version: shanghai

Deploy 2

Publish to IPFS

At Address Load contract from Address

Transactions recorded 2 ① >

Deployed Contracts

PIGGYBANK AT 0x165...E1312 (① ×)

Balance: 0.5 ETH

depositToTh...

emptyTheBa...

deposits 0xAD45EF90803D39a67059c1BAf512cfd672B43485 ①

0: uint256: 5000000000000000000

```

1 // CCMF 606 Assignment 1
2 // Piggy Bank Smart Contract
3 // Author: Tai Cong Chi Nguyen
4
5 // SPDX-License-Identifier: MIT
6 pragma solidity ^0.8.16;
7
8 // My contract address: 0xAD45EF90803D39a67059c1BAf512cfd672B43485
9 // Piggy bank address: 0x165D39ECD4dA594DA79c3B73d1376eD7Ef6e1312
10
11 contract PiggyBank {
12
13     address public immutable owner;
14     uint public savingsGoal;
15     mapping(address => uint256) public deposits;
16
17     // Set any other variables you need

```

call to PiggyBank.deposits

CALL [call] from: 0xAD45EF90803D39a67059c1BAf512cfd672B43485 to: PiggyBank.deposits(address) data: 0xfc7...43485

from 0xAD45EF90803D39a67059c1BAf512cfd672B43485 ①

to PiggyBank.deposits(address) 0x165D39ECD4dA594DA79c3B73d1376eD7Ef6e1312 ①

input 0xfc7...43485 ①

decoded input { "address ": "0xAD45EF90803D39a67059c1BAf512cfd672B43485" } ①

decoded output { "0": "uint256: 5000000000000000000" } ①

logs [] ① ①

8. emptyTheBank

DEPLOY & RUN TRANSACTIONS

Sepolia (11155111) network

ACCOUNT

0xad4...43485 (3.3373137)

GAS LIMIT

3000000

VALUE

0 Wei

CONTRACT

PiggyBank - contracts/PiggyBank.sol

evm version: shanghai

Deploy 2

Publish to IPFS

At Address Load contract from Address

Transactions recorded 3

Deployed Contracts

PIGGYBANK AT 0x165...E1312

Balance: 0. ETH

depositToTh...

emptyTheBa...

PiggyBank.sol

```

62 // Function to withdraw (send) ETH, called emptyTheBank
63 // -- Only the owner of the contract can withdraw the ETH from the contract
64 function emptyTheBank() public onlyOwner {
65     uint depositorBalance = deposits[msg.sender];
66     require(depositorBalance > 0, "No deposits to withdraw");
67
68     // Transfer ETH to the owner
69     payable(owner).transfer(depositorBalance);
70
71     // Reset depositor's balance to 0 after withdrawal
72     deposits[msg.sender] = 0;
73 }
74
75

```

0

listen on all transactions

Search with transaction hash or address...

transact to PiggyBank.emptyTheBank pending ...

view on etherscan

[block:5285065 txIndex:77] from: 0xad4...43485 to: PiggyBank.emptyTheBank() 0x165...e1312 value: 0 wei data: 0x0e5...05040 logs: 0 hash: 0xf86...80b49

status 0x1 Transaction mined and execution succeed

transaction hash 0x3ea7b8cfd9dadb9f3c0c979966837727763f504f9eb2ff64b8a5dba4d8b9077

block hash 0xf86864eb204752a584ea043162872853dff1f951367085cf141857637c80b49

block number 5285065

from 0xad45ef90803d39a67059c1baf512cfd672b43485

to PiggyBank.emptyTheBank() 0x165d39ecd4da594da79c3b73d1376ed7ef6e1312

gas 33812 gas

transaction cost 28543 gas

input 0x0e5...05040

Sepolia Testnet

Search by Address / Txn Hash /

Etherscan

Transaction Details

Overview

Internal Txns

State

[This is a Sepolia Testnet transaction only]

Transaction Hash:

0x3ea7b8cfd9dadb9f3c0c979966837727763f504f9eb2ff64b8a5dba4d8b9077

Status:

Success

Block:

5285065 7 Block Confirmations

Timestamp:

1 min ago (Feb-14-2024 06:17:48 AM +UTC)

From:

0xad45ef90803d39a67059c1baf512cfd672b43485

To:

0x165d39ecd4da594da79c3b73d1376ed7ef6e1312

Transfer 0.5 ETH From 0x165D39...Ef6e1312 To 0xad45EF...72B43485

Value:

0 ETH (\$0.00)

Transaction Fee:

0.00006443728047644 ETH (\$0.00)

Gas Price:

2.25755108 Gwei (0.00000000225755108 ETH)