



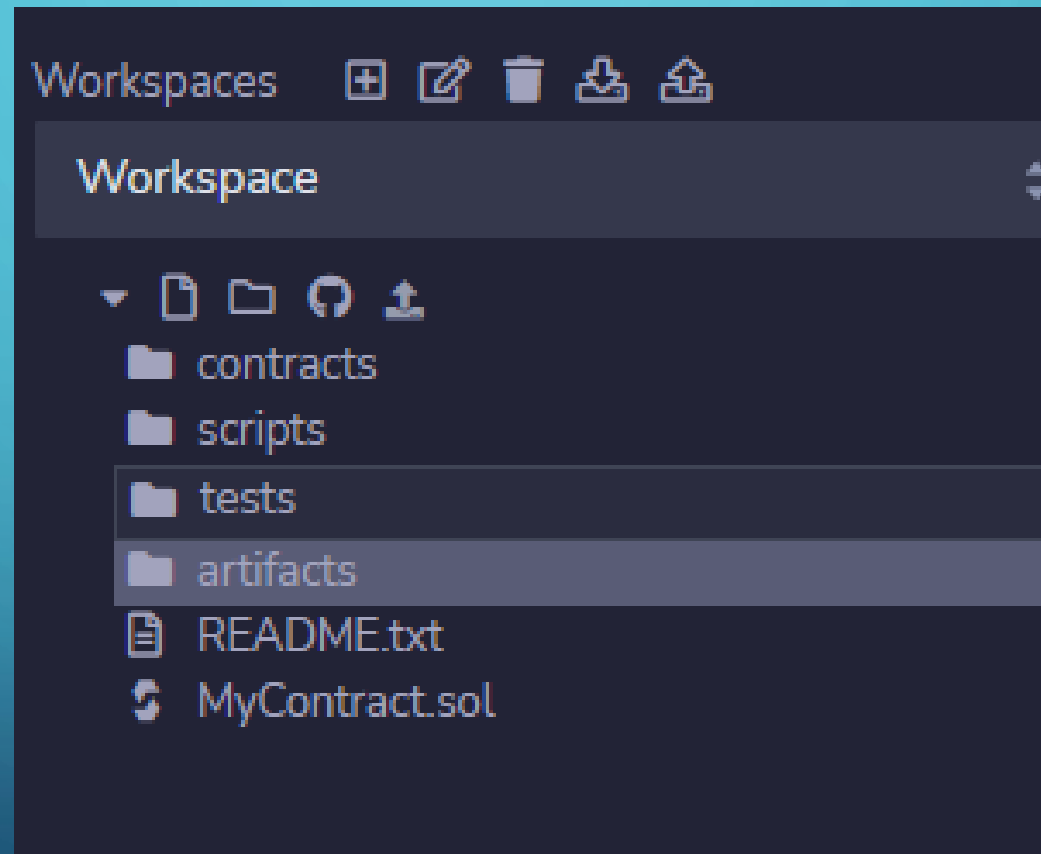
ETHERIUM TUTORIAL

FATH MUHAMMAD ISHAM

1103192205

TK-43-02

BUAT FILE MYCONTRACT.SOL DI REMIX IDE

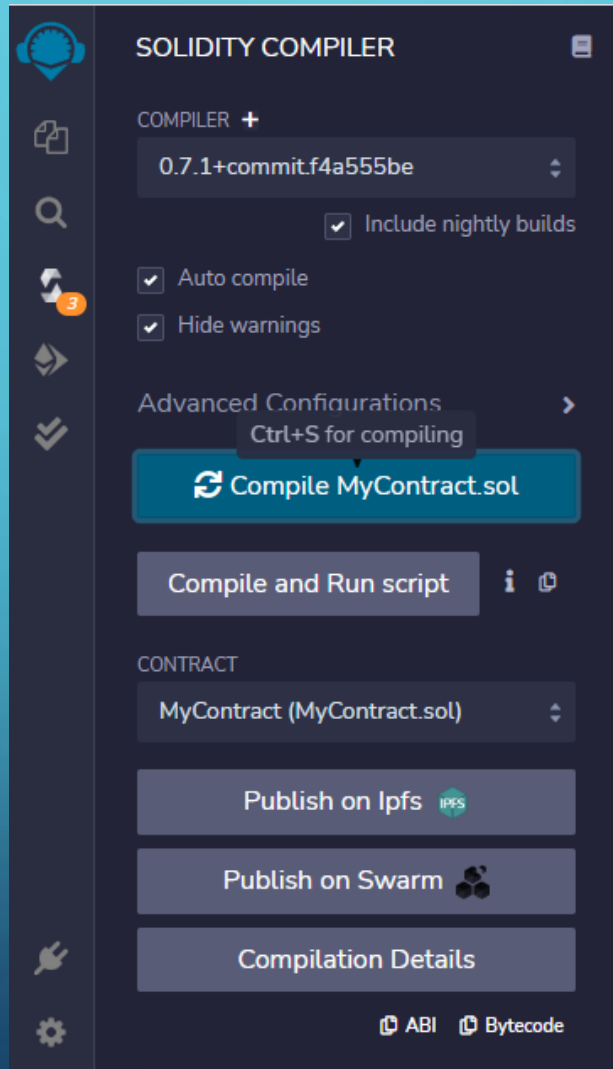


BUAT SMART CONTRACT SEPERTI DIBAWAH INI

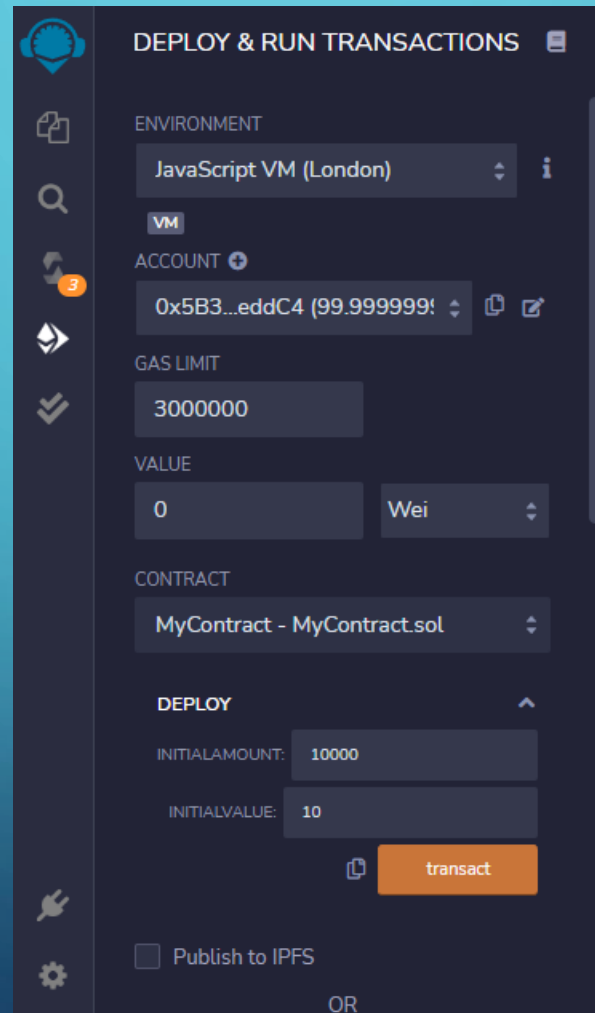
```
1 //SPDX-License-Identifier: GPL-3.0
2 pragma solidity >=0.7.0 <0.9.0;
3
4 contract MyContract {
5     uint amount;
6     uint value;
7     constructor (uint initialAmount, uint initialValue) public {
8         amount = 0;
9         value = 1000;
10    }
11    function getBalance() public view returns(uint) {
12        return value;
13    }
14    function getAmount() public view returns(uint) {
15        return amount;
16    }
17    function send(uint newDeposit) public {
18        value = value - newDeposit;
19        amount = amount + newDeposit;
20    }
21 }
```

ContractDefinition MyContract → 1 reference(s) ^ v

COMPILE CONTRACT TERSEBUT DENGAN COMPILER VERSION 0.7.1



DEPLOY SMART CONTRACT DAN ISI INITIAL AMOUNT DAN INITIAL VALUE SESUAI YANG DIINGINKAN



DEPLOY & RUN TRANSACTIONS

ENVIRONMENT
JavaScript VM (London)

ACCOUNT
0x5B3...eddC4 (99.999999%)

GAS LIMIT
3000000

VALUE
0 Wei

CONTRACT
MyContract - MyContract.sol

DEPLOY

INITIALAMOUNT: 10000

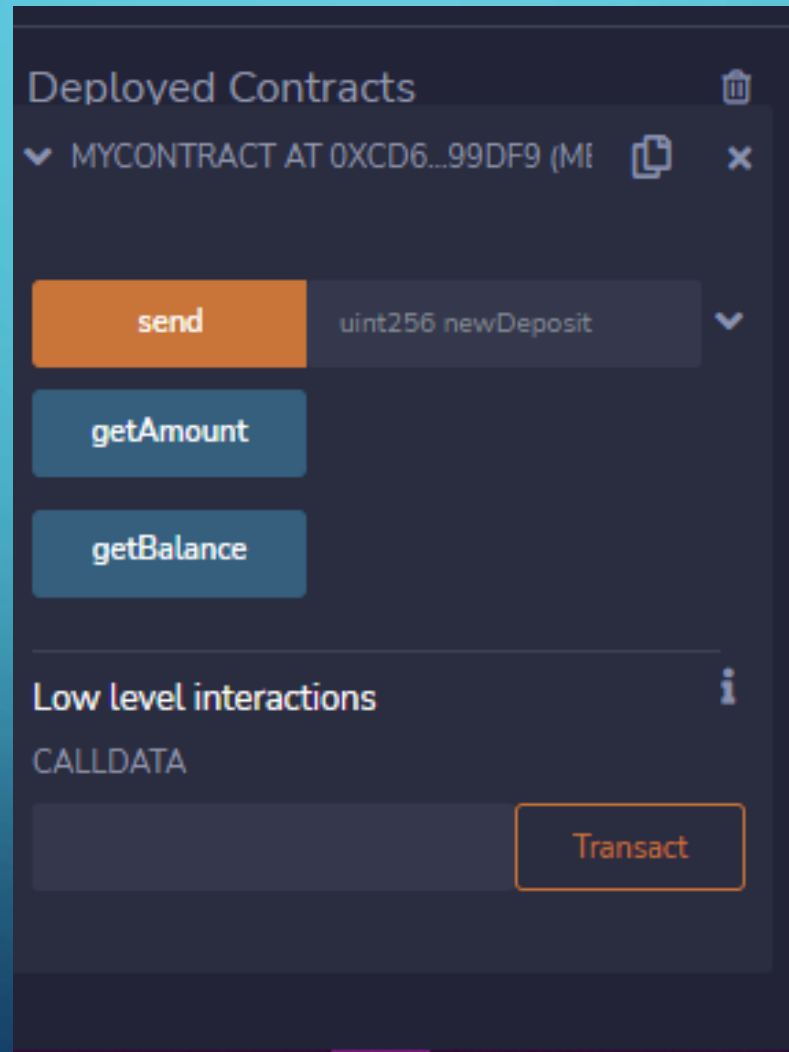
INITIALVALUE: 10

transact

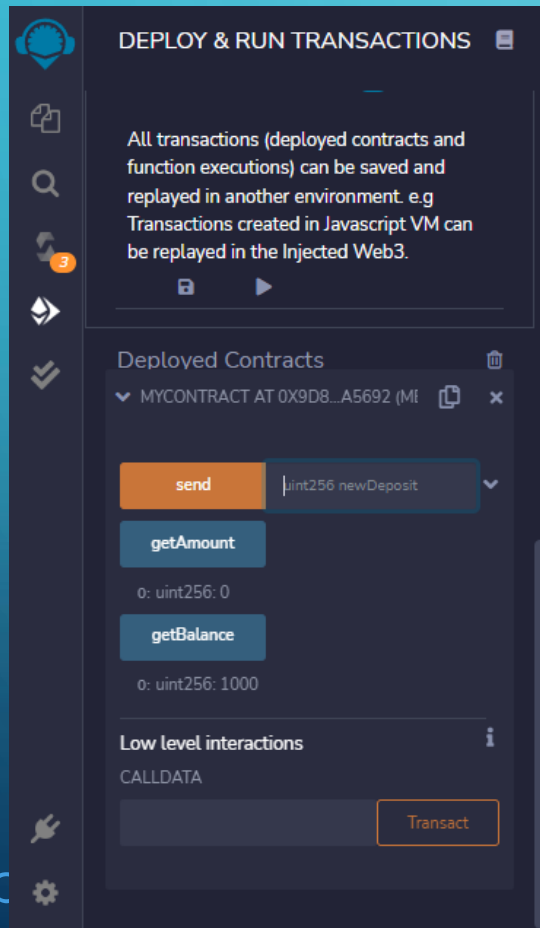
☐ Publish to IPFS

OR

MAKA AKAN MUNCUL HASIL DEPLOY SPERTI INI



COBA LAKUKAN TRANSAKSI DI SMART CONTRACT



DEPLOY & RUN TRANSACTIONS

All transactions (deployed contracts and function executions) can be saved and replayed in another environment. e.g Transactions created in Javascript VM can be replayed in the Injected Web3.

Deployed Contracts

▼ MYCONTRACT AT 0X9D8...A5692 (Mi)

send | uint256 newDeposit

getAmount

o: uint256: 0

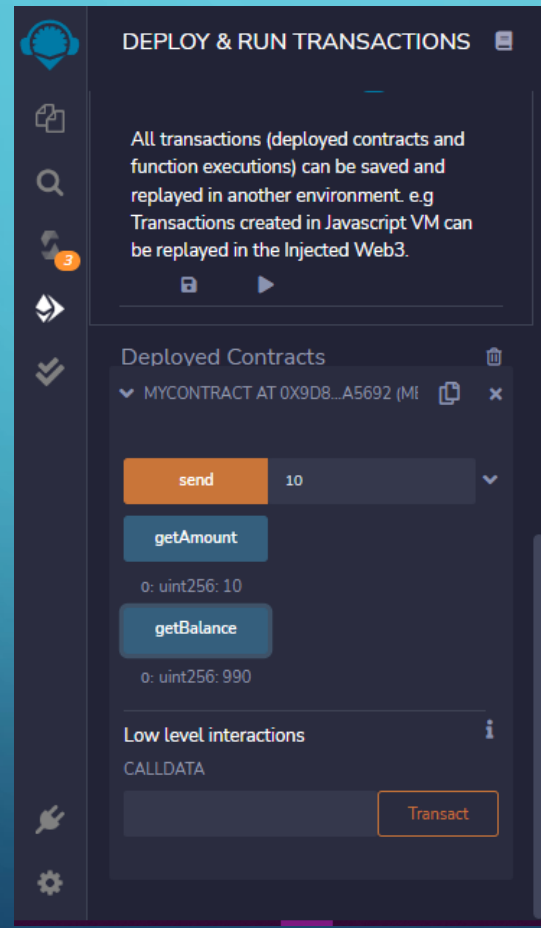
getBalance

o: uint256: 1000

Low level interactions

CALLDATA

Transact



DEPLOY & RUN TRANSACTIONS

All transactions (deployed contracts and function executions) can be saved and replayed in another environment. e.g Transactions created in Javascript VM can be replayed in the Injected Web3.

Deployed Contracts

▼ MYCONTRACT AT 0X9D8...A5692 (Mi)

send | 10

getAmount

o: uint256: 10

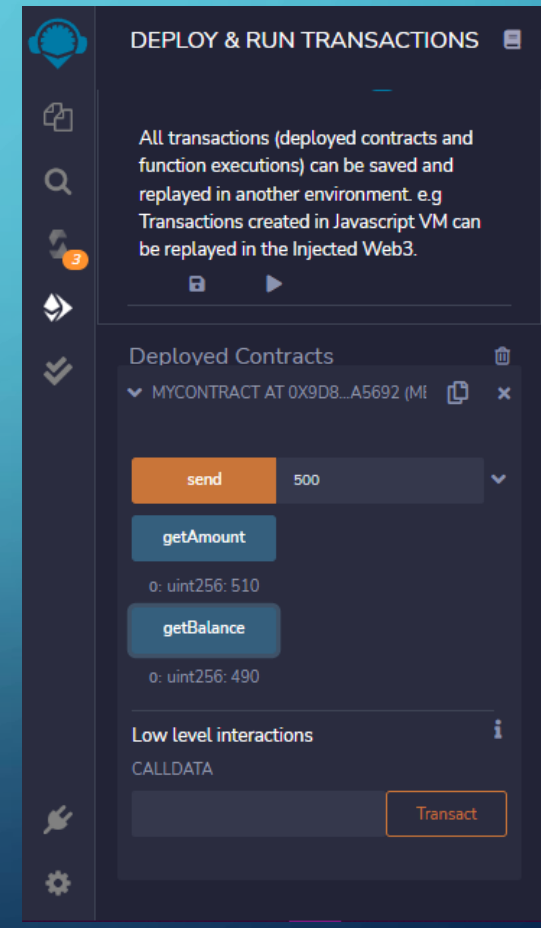
getBalance

o: uint256: 990

Low level interactions

CALLDATA

Transact



DEPLOY & RUN TRANSACTIONS

All transactions (deployed contracts and function executions) can be saved and replayed in another environment. e.g Transactions created in Javascript VM can be replayed in the Injected Web3.

Deployed Contracts

▼ MYCONTRACT AT 0X9D8...A5692 (Mi)

send | 500

getAmount

o: uint256: 510

getBalance

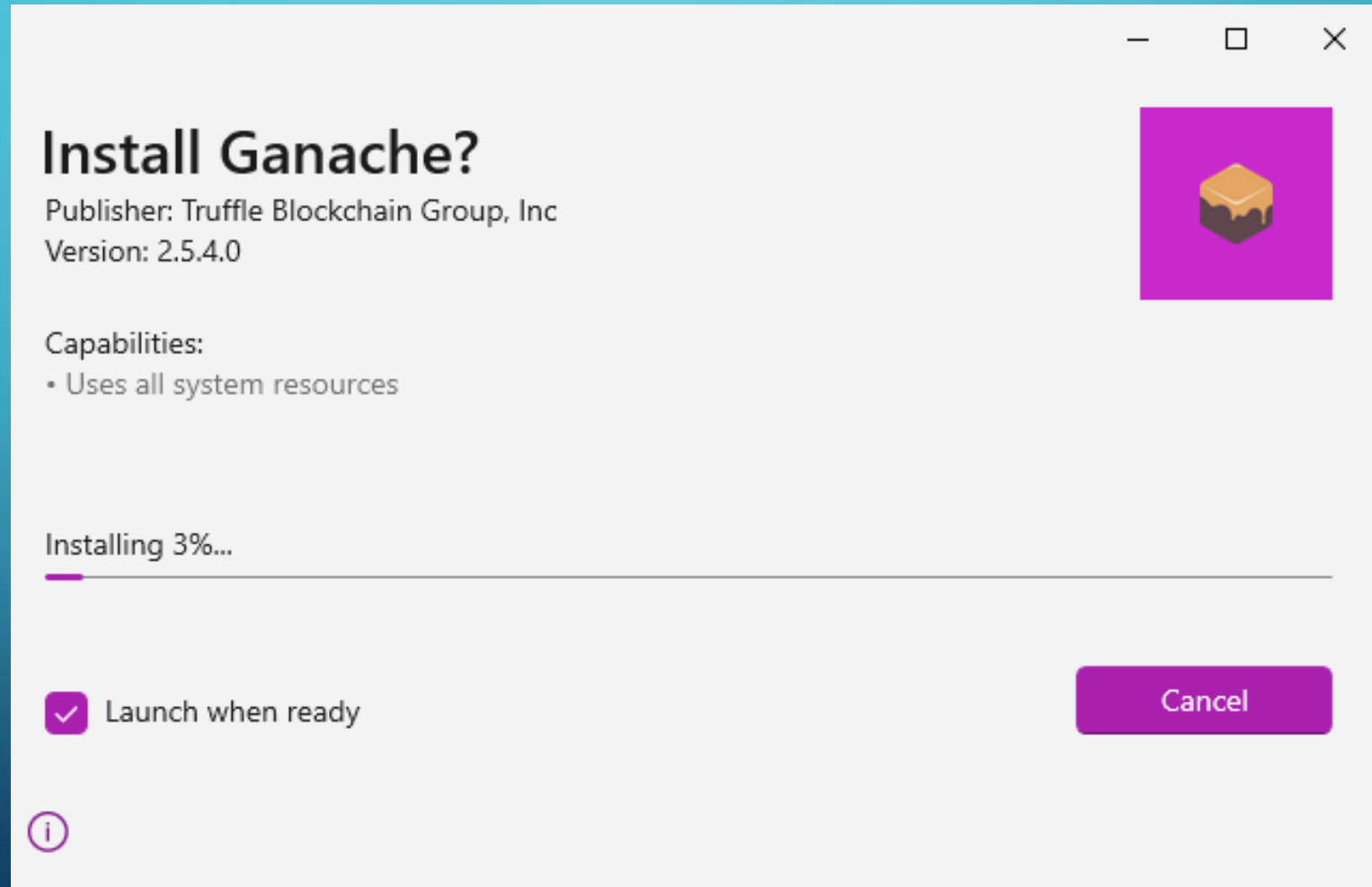
o: uint256: 490

Low level interactions

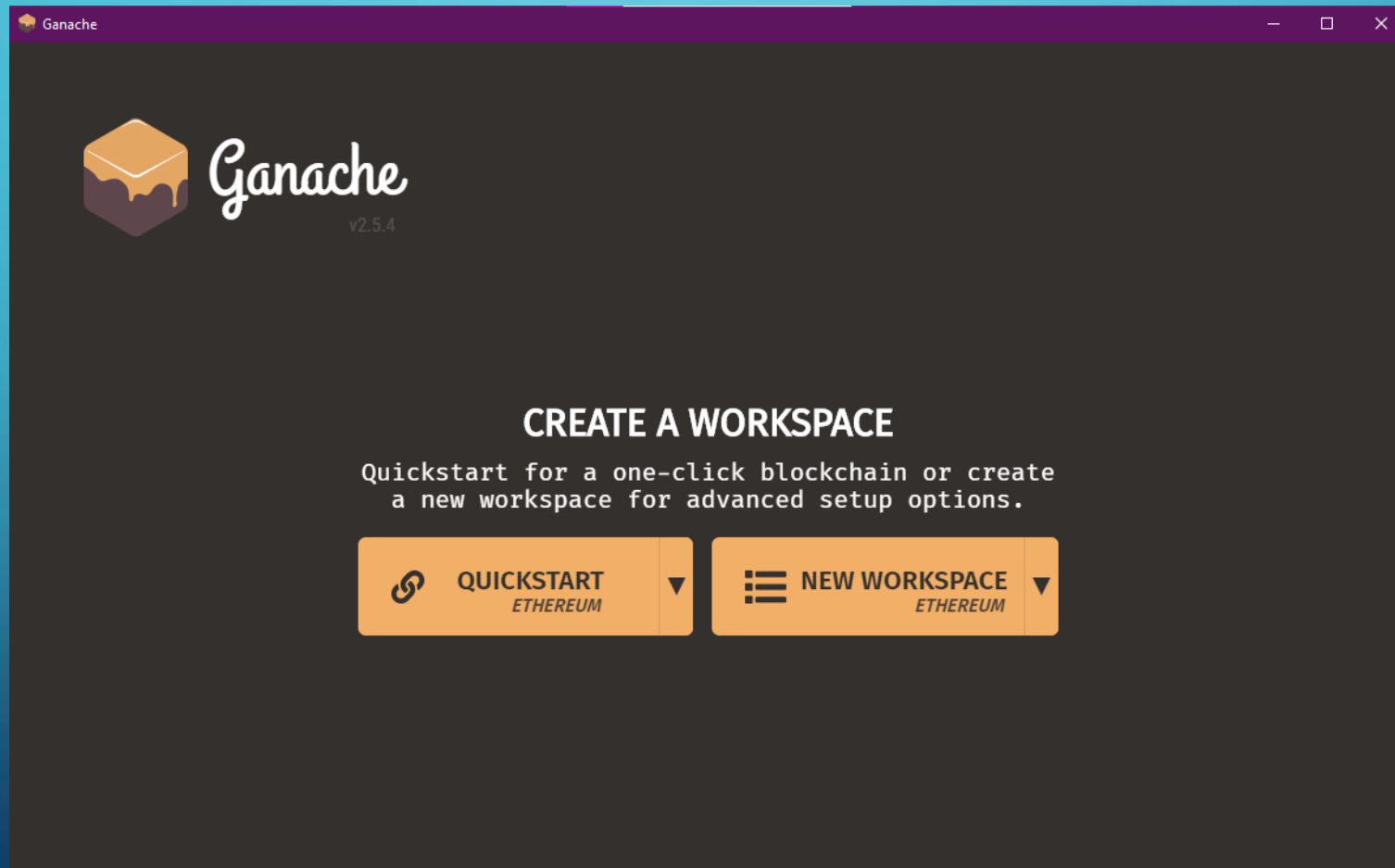
CALLDATA

Transact

SETELAH SMART CONTRACT BERJALAN DENGAN BAIK, DOWNLOAD DAN INSTALL GANACHE



SETELAH INSTALL GANACHE AKAN MUNCUL TAMPILAN SEPERTI INI, PILIH QUICK START



MAKA AKAN MUNCUL TAMPILAN SEPERTI INI

ACCOUNTS

BLOCKS

TRANSACTIONS

CONTRACTS

EVENTS

LOGS

SEARCH FOR BLOCK NUMBERS OR TX HASHES

CURRENT BLOCK
0

GAS PRICE
20000000000

GAS LIMIT
6721975

HARDFORK
MUIRGLACIER

NETWORK ID
5777

RPC SERVER
HTTP://127.0.0.1:7545

MINING STATUS
AUTOMINING

WORKSPACE
QUICKSTART

SAVE

SWITCH

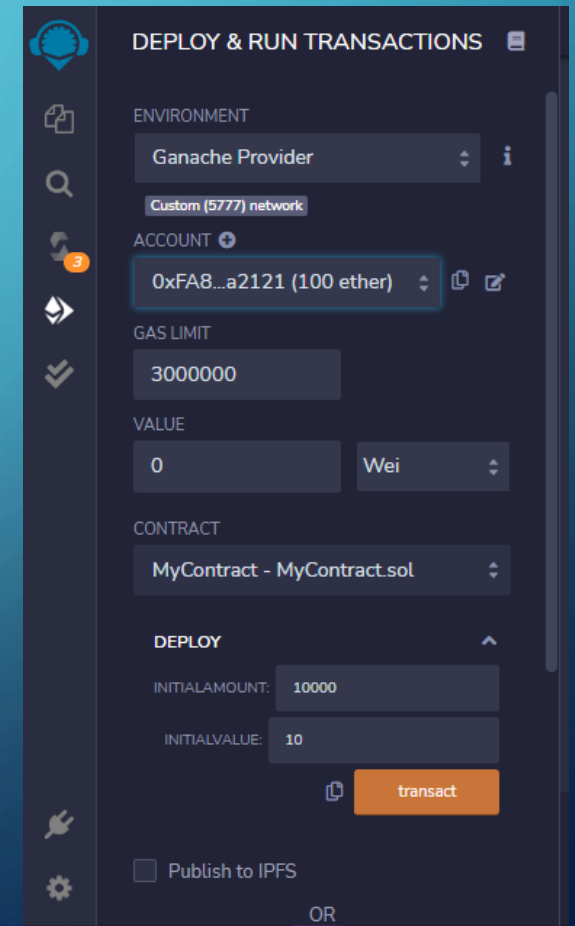
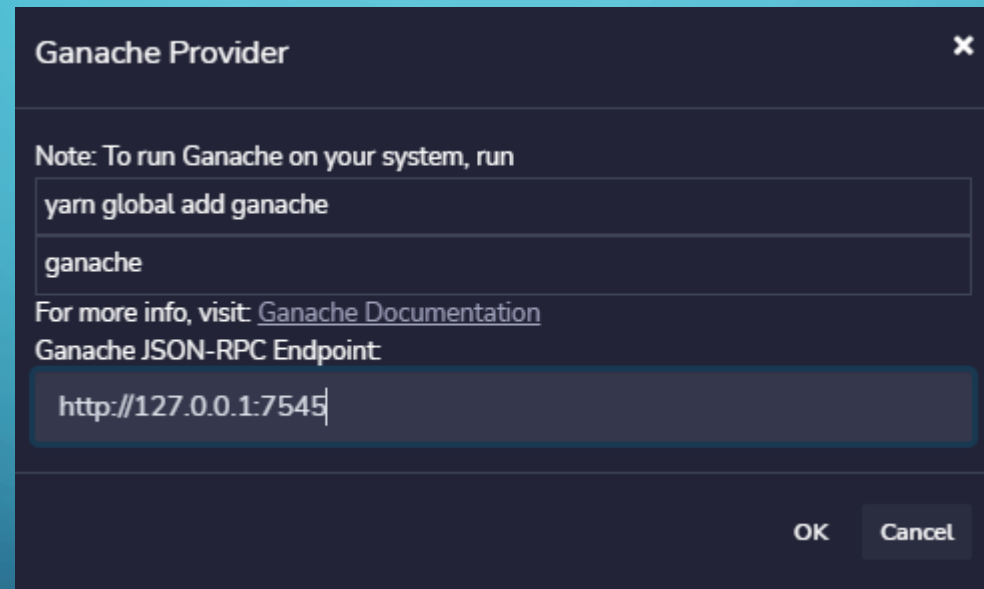
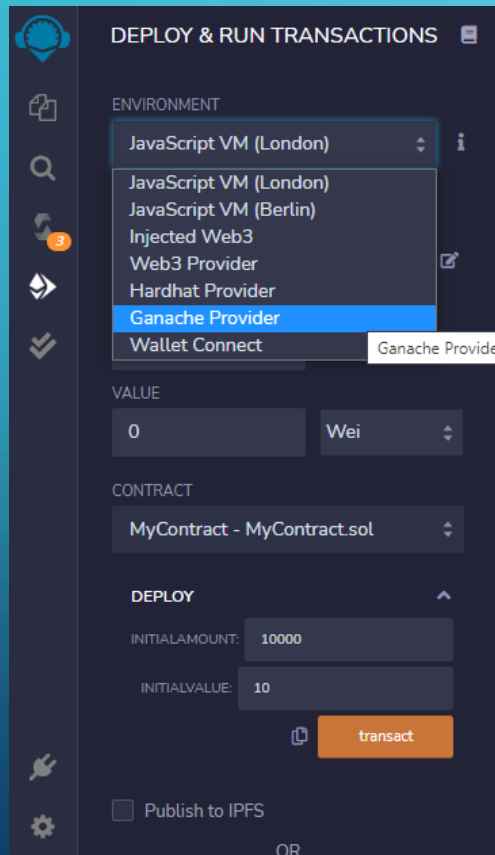
MNEMONIC ?

live fog muffin robust behave gown whale torch knife idea involve faint

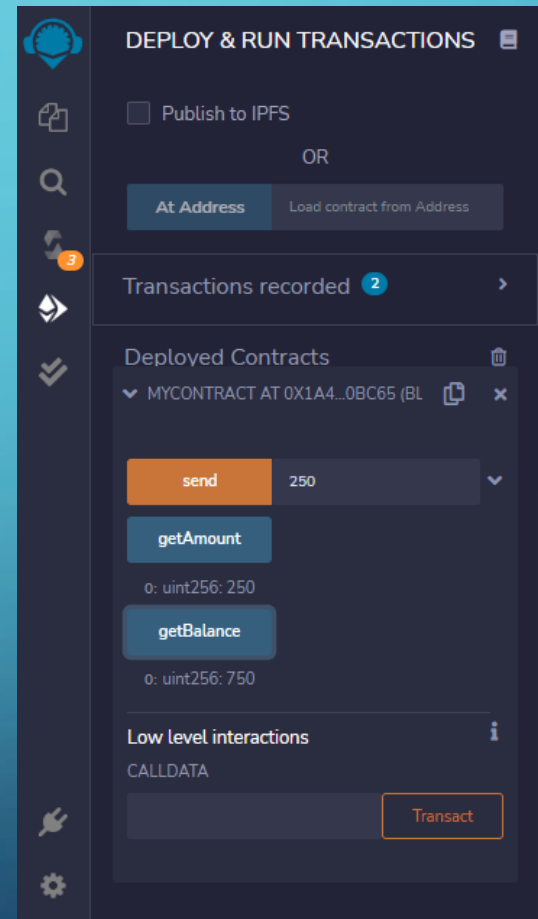
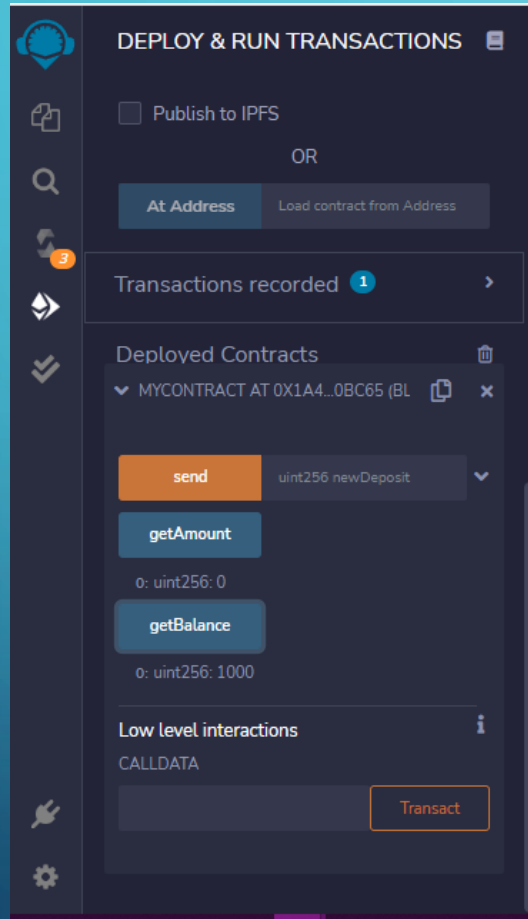
HD PATH

m/44'/60'/0'/0/account_index

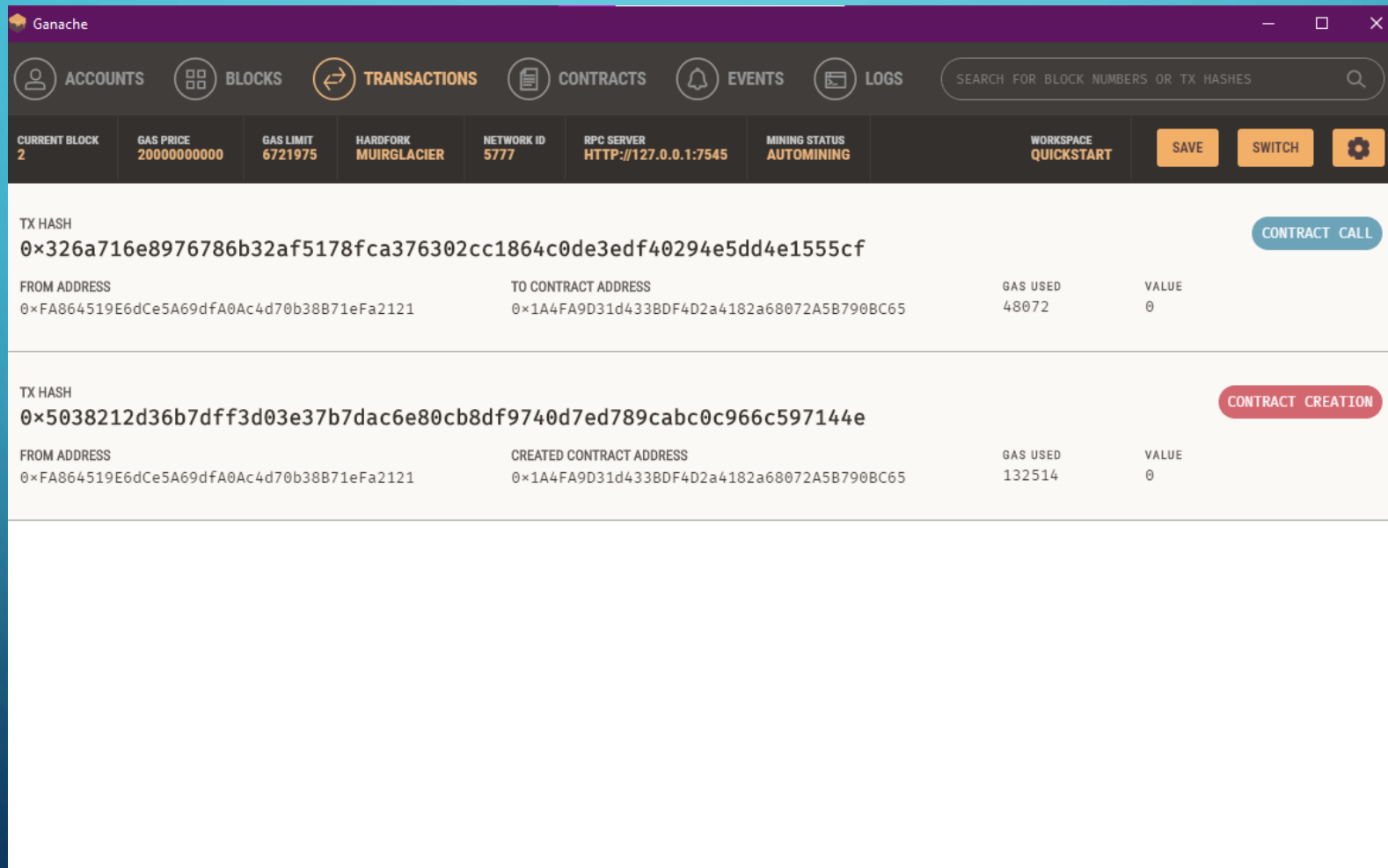
LALU KEMBALI KE REMIX IDE DAN PILIH GANACHE PROVIDER UNTUK MEN DEPLOY SMART CONTRACT



LALU COBA TEST TRANSAKSI PADA SMART CONTRACT



MAKA JIKA DILIHAT DI GANACHE PASTI AKAN MUNCUL RIWAYAT TRANSAKSI YANG DILAKUKAN



The screenshot displays the Ganache desktop application interface. The top navigation bar includes tabs for ACCOUNTS, BLOCKS, TRANSACTIONS (which is the active tab), CONTRACTS, EVENTS, and LOGS. A search bar is located on the right side of the navigation bar. Below the navigation bar, a status bar shows various network parameters: CURRENT BLOCK 2, GAS PRICE 20000000000, GAS LIMIT 6721975, HARDFORK MUIRGLACIER, NETWORK ID 5777, RPC SERVER HTTP://127.0.0.1:7545, MINING STATUS AUTOMINING, and a WORKSPACE QUICKSTART section with SAVE, SWITCH, and settings buttons.

The main content area displays a list of transactions. The first transaction is a 'CONTRACT CALL' with the following details:

TX HASH	FROM ADDRESS	TO CONTRACT ADDRESS	GAS USED	VALUE
0x326a716e8976786b32af5178fca376302cc1864c0de3edf40294e5dd4e1555cf	0xFA864519E6dCe5A69dFA0Ac4d70b38B71eFa2121	0x1A4FA9D31d433BDF4D2a4182a68072A5B790BC65	48072	0

The second transaction is a 'CONTRACT CREATION' with the following details:

TX HASH	FROM ADDRESS	CREATED CONTRACT ADDRESS	GAS USED	VALUE
0x5038212d36b7dff3d03e37b7dac6e80cb8df9740d7ed789cab0c966c597144e	0xFA864519E6dCe5A69dFA0Ac4d70b38B71eFa2121	0x1A4FA9D31d433BDF4D2a4182a68072A5B790BC65	132514	0

The background is a blue gradient with decorative white circuit-like lines in the corners. The lines consist of straight segments and small circles, resembling a stylized electronic circuit or data paths.

THANK YOU