

# **TUGAS LAB 1 DEPOSIT/WITHDRAW ETHER**

Diajukan untuk memenuhi tugas pada mata kuliah Blockchain

oleh:

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# **Universitas Telkom**

**S1 TEKNIK KOMPUTER**

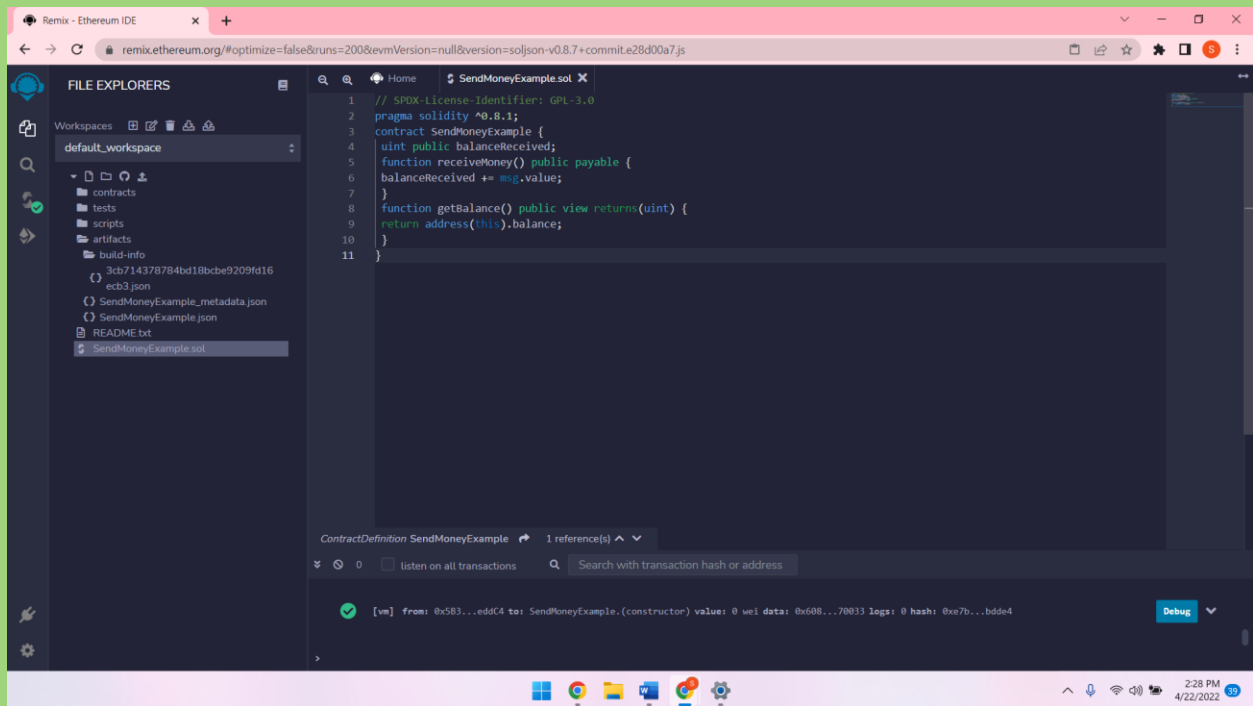
**FAKULTAS TEKNIK ELEKTRO**

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**BANDUNG**

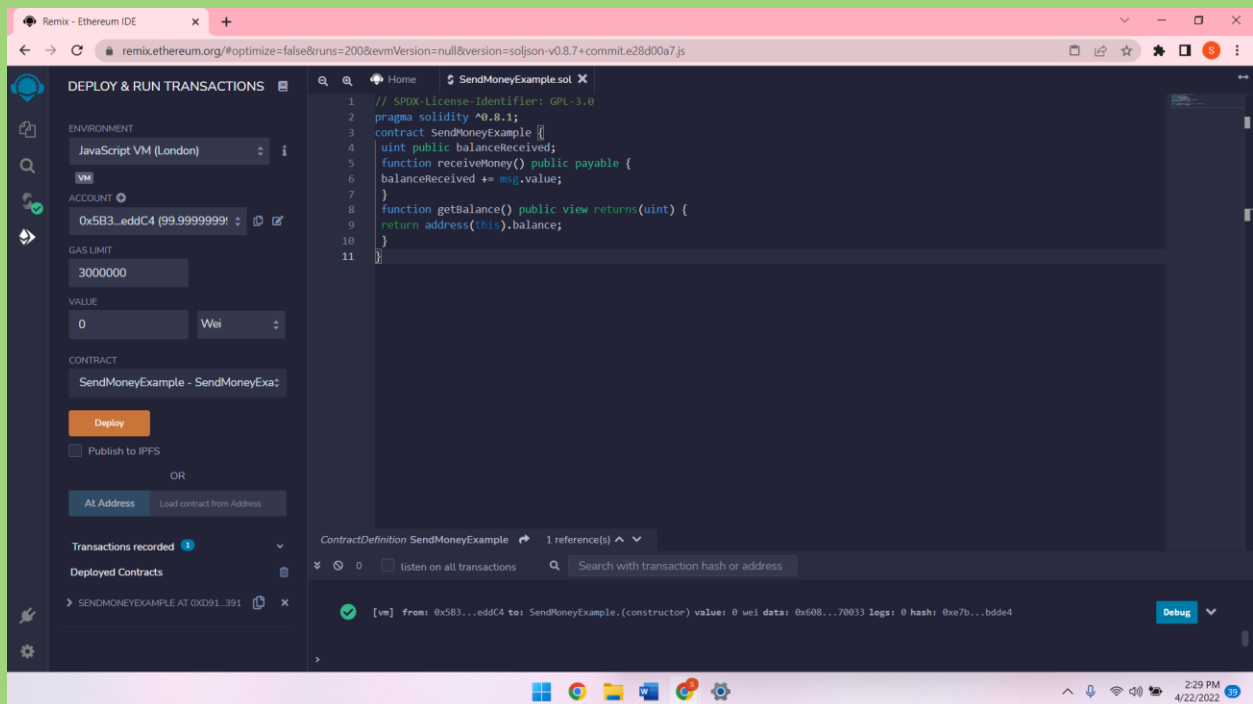
**2021**

Pertama kita buat file baru di remix dan copy kode program

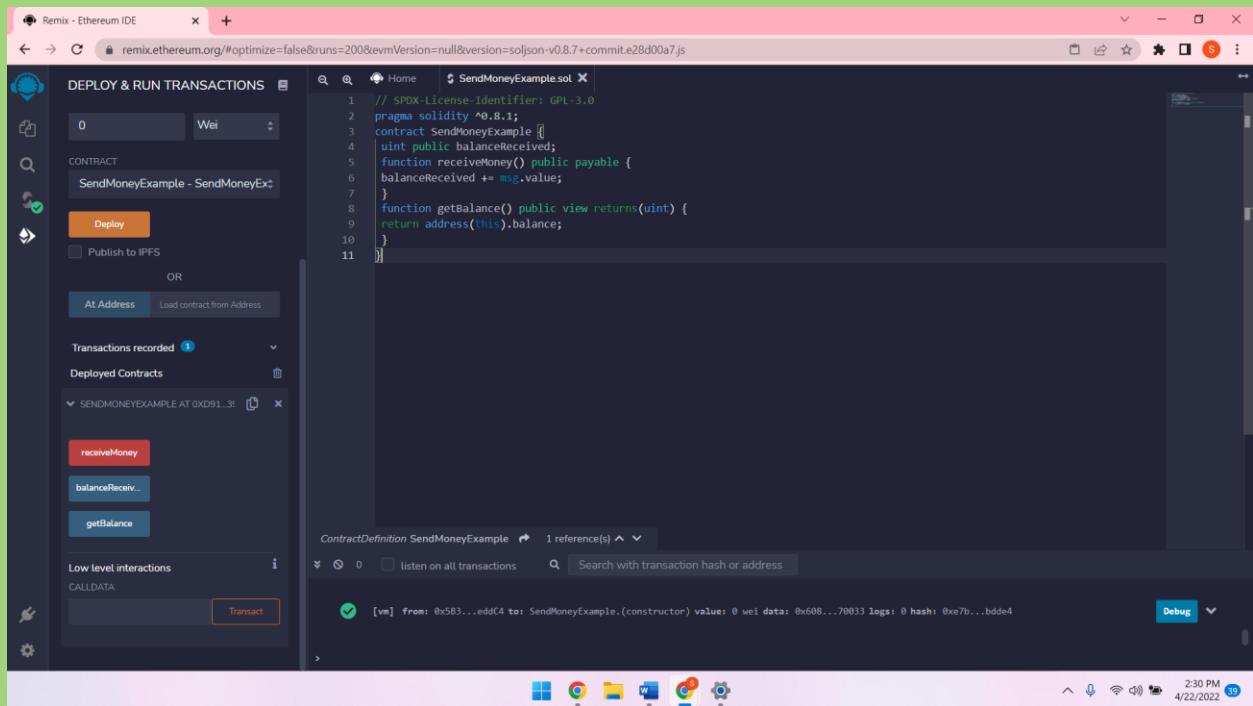


Uint public balanceReceived adalah variable penyimpanan publik.

Lalu klik save kemudian klik deploy

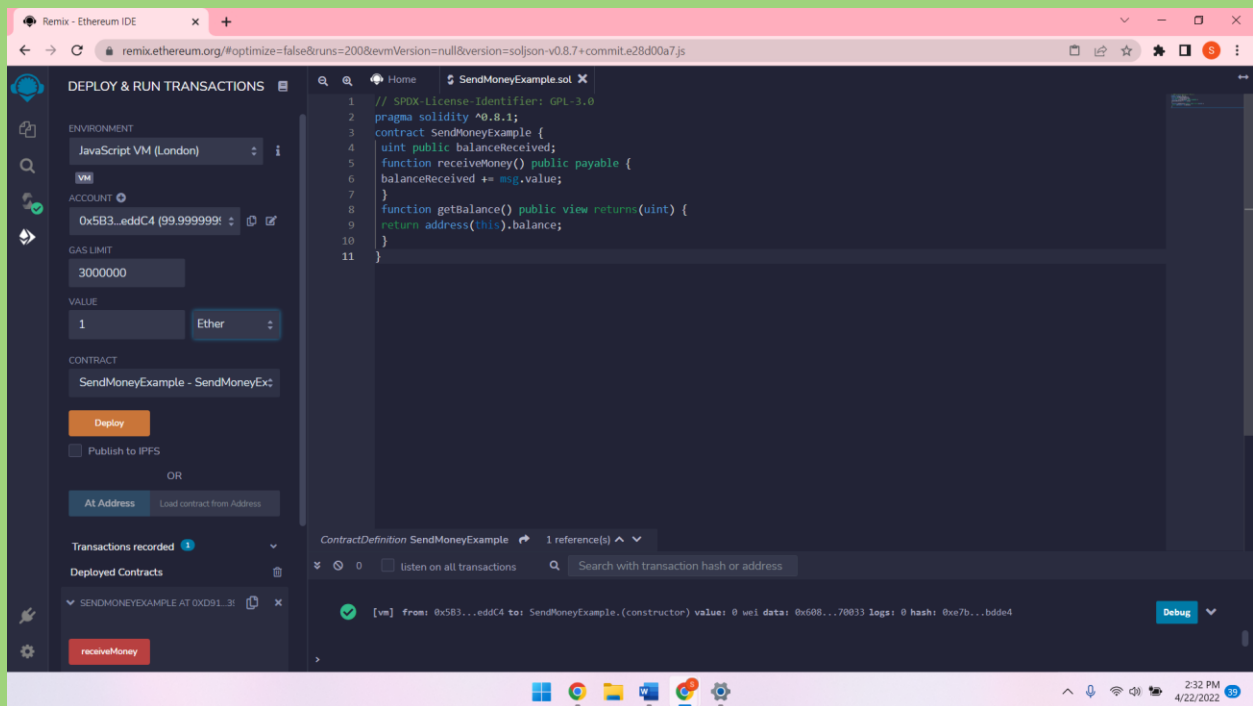


Setelah itu akan muncul receiveMoney, balanceReceivemoney, getBalance



Kemudian kita akan mengirim beberapa eter ke smart contract.

Lalu masukkan nilai 1 ke dalam input nilai dan pilih eter.



Lalu klik receiveMoney, balancereceiveMoney kemudian get balance dan lihat terminal terdapat transaksi baru yang dikirim ke dalam jaringan.

The screenshot shows the Remix Ethereum IDE interface. On the left, the 'DEPLOY & RUN TRANSACTIONS' sidebar is visible. The 'CONTRACT' section shows 'SendMoneyExample - SendMoneyEx'. The 'Deploy' button is highlighted. Below it, the 'At Address' section is empty. The 'Transactions recorded' section shows one transaction: 'SENDMONEYEXAMPLE AT 0XD91...3f'. The 'Deployed Contracts' section shows the contract name. The 'Low level interactions' section shows the 'CALLDATA' field. The main editor displays the Solidity code for 'SendMoneyExample.sol':

```
1 // SPDX-License-Identifier: GPL-3.0
2 pragma solidity ^0.8.1;
3 contract SendMoneyExample {
4     uint public balanceReceived;
5     function receiveMoney() public payable {
6         balanceReceived += msg.value;
7     }
8     function getBalance() public view returns(uint) {
9         return address(this).balance;
10    }
11 }
```

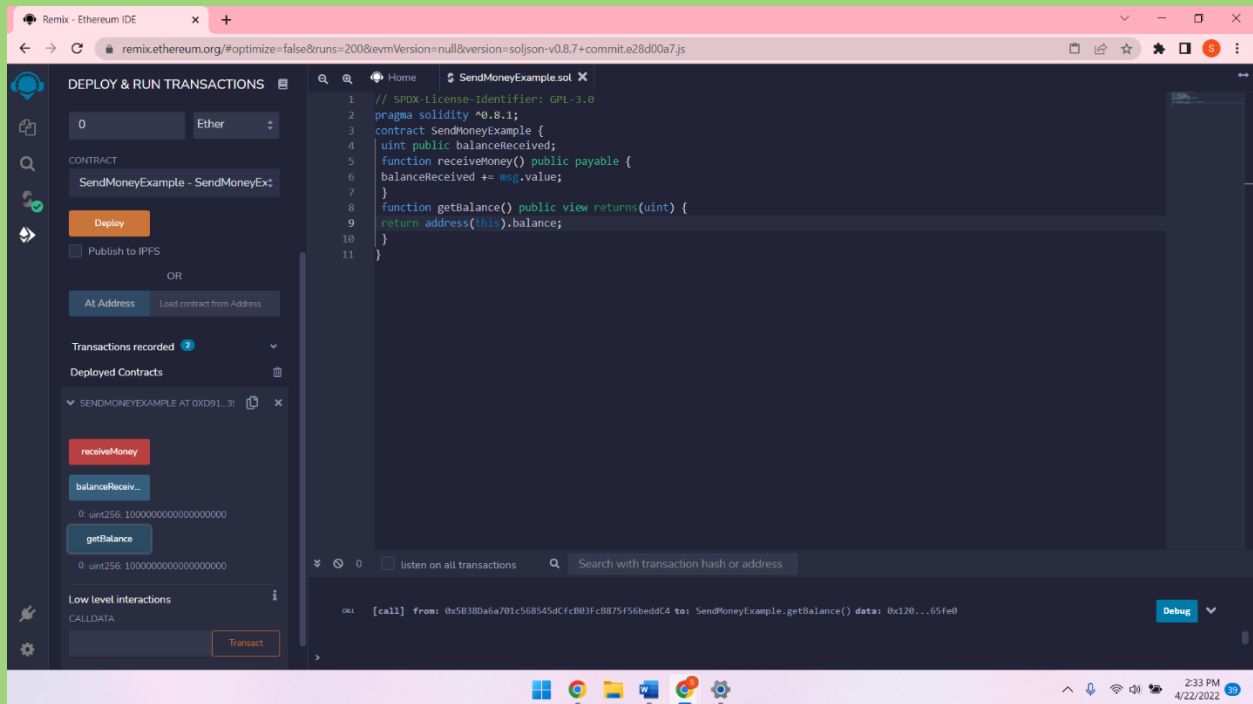
The bottom terminal shows a successful transaction: '[ve] from: 0x583...eddC4 to: SendMoneyExample.receiveMoney() 0xd91...39138 value: 10000000000000000 wei data: 0x6d2...6ec18 logs: 0 hash: 0x421...ca075'.

The screenshot shows the Remix Ethereum IDE interface after a transaction. The 'DEPLOY & RUN TRANSACTIONS' sidebar is visible. The 'CONTRACT' section shows 'SendMoneyExample - SendMoneyEx'. The 'Deploy' button is highlighted. Below it, the 'At Address' section is empty. The 'Transactions recorded' section shows one transaction: 'SENDMONEYEXAMPLE AT 0XD91...3f'. The 'Deployed Contracts' section shows the contract name. The 'Low level interactions' section shows the 'CALLDATA' field. The main editor displays the Solidity code for 'SendMoneyExample.sol':

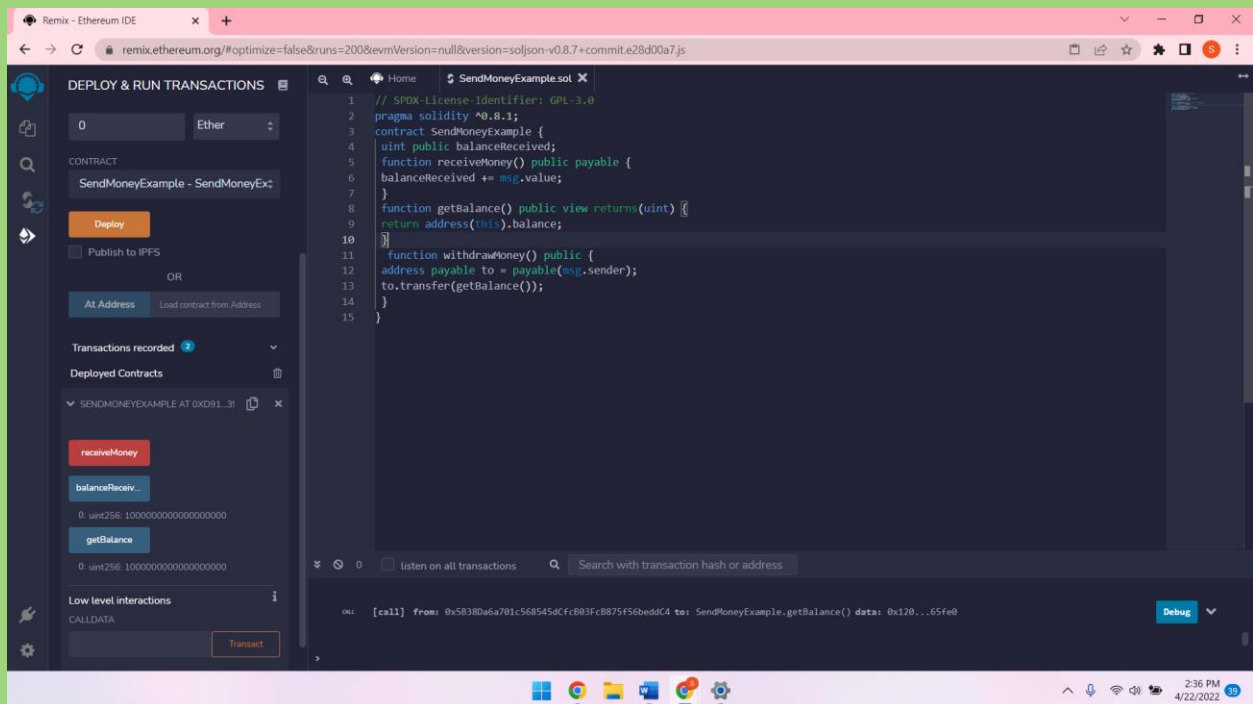
```
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6         balanceReceived += msg.value;
7     }
8     function getBalance() public view returns(uint) {
9         return address(this).balance;
10    }
11 }
```

The bottom terminal shows a successful transaction: '[call] from: 0x5830a6a701c568545dCfc883fc8875f56beddC4 to: SendMoneyExample.balanceReceived() data: 0x52a...9ec42'.

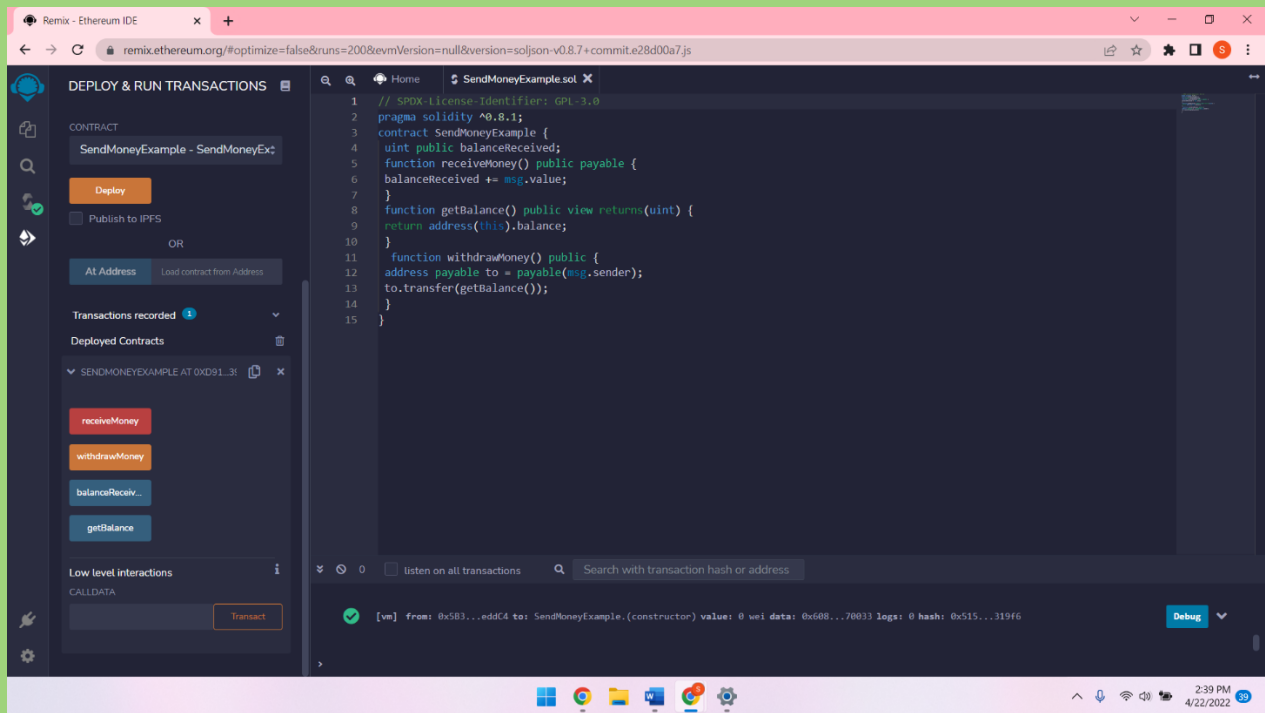
Kita akan mengirim 1 eter ke smart contract variabel balanceReceived dan fungsi getBalance() harus memiliki nilai yang sama.



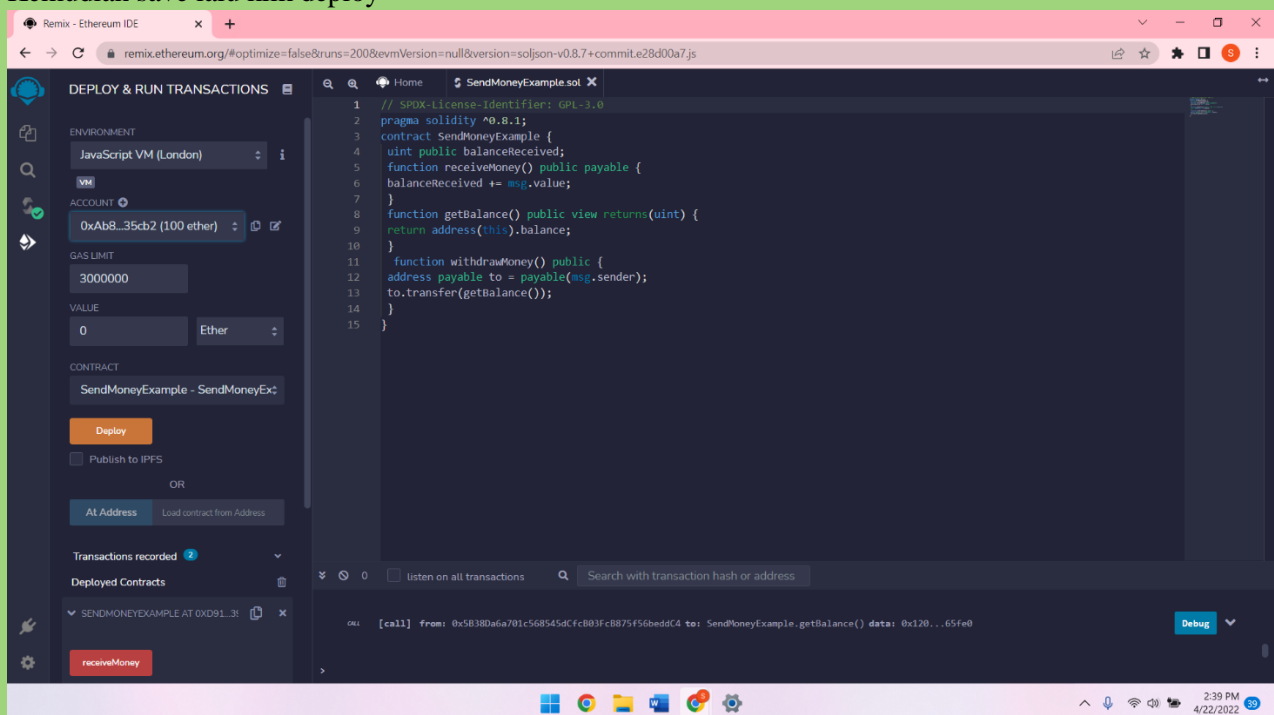
Disini terlihat kalau kita sudah mengirim 1 ether ke getBalance



## Tambahkan fungsi program ke dalam smart contract



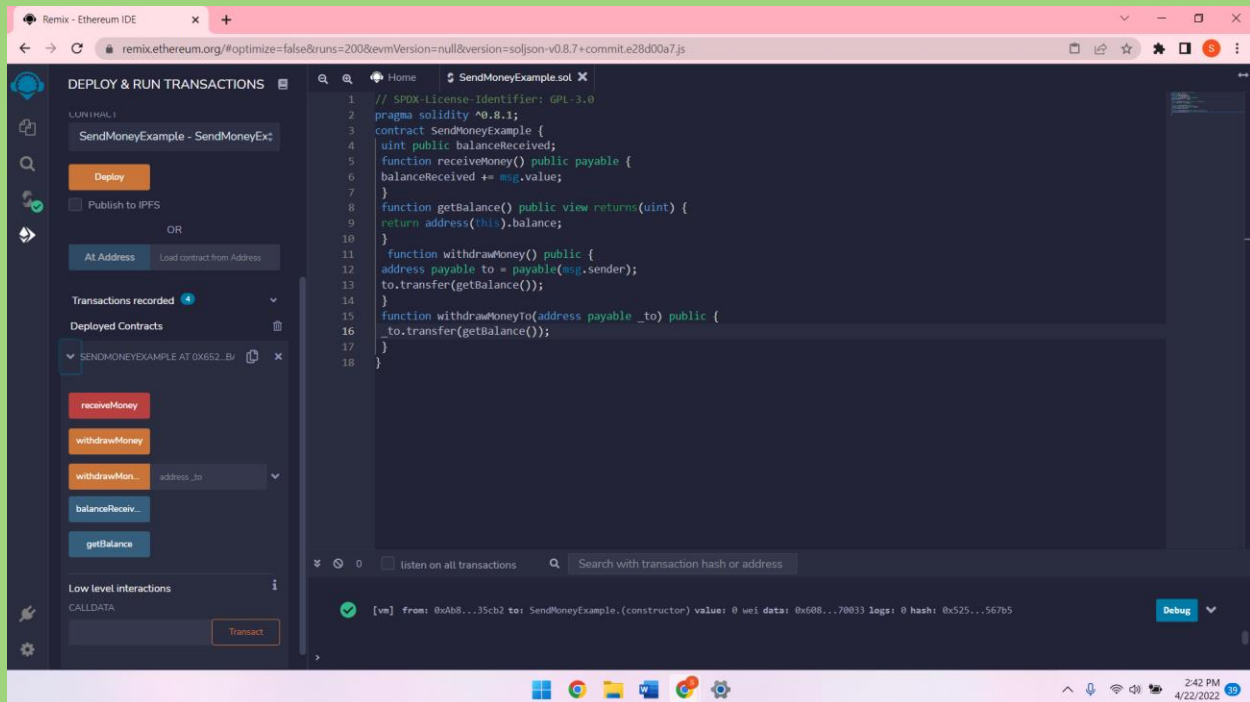
## Kemudian save lalu klik deploy



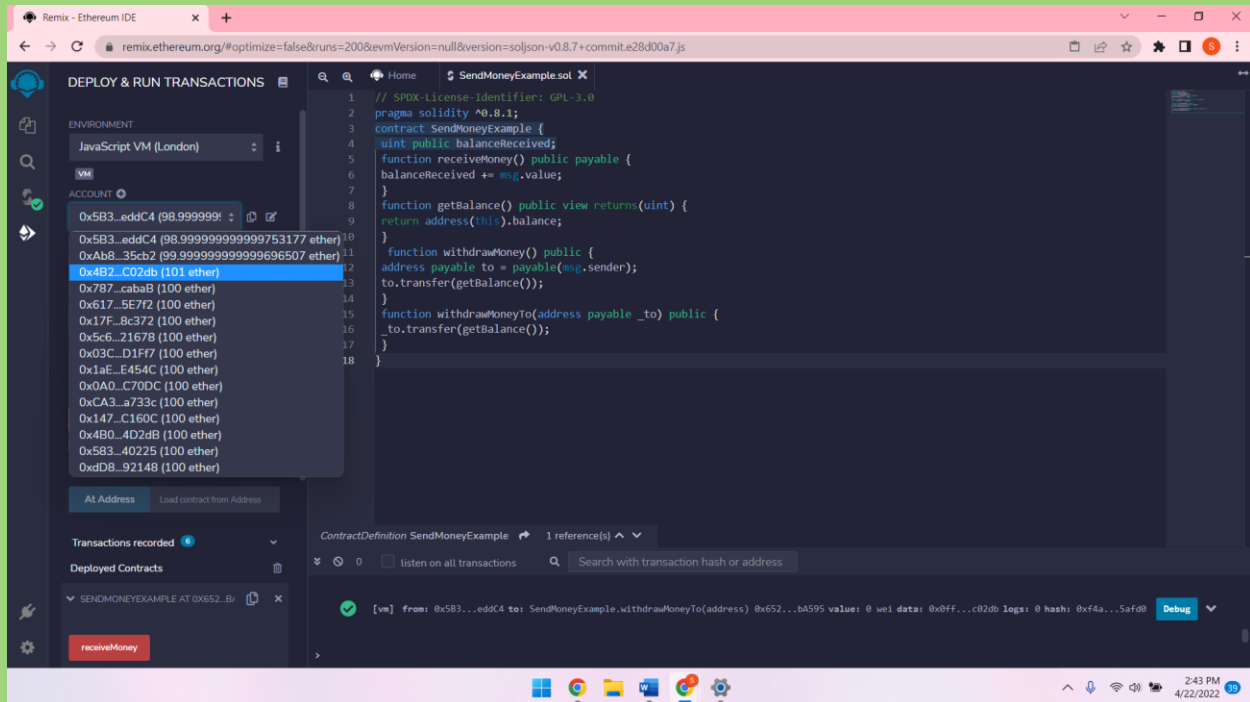
Maka ada terlihat penambahan `withdrawMoney`, Kemudian kita akan memasukkan 1 eter ke dalam nilai input box hit setelah itu tekan `receiveMoney`.

Jika saldo kita bernilai 0 maka periksa Kembali kolom nilai dan jika saldo kita 2 eter periksa instance contract.

Pindahkan akun ke bagian 2 lalu klik `withdrawMoney`, lihat jumlah eter yang kita miliki di akun kita.



Kemudian kita akan memasukkan 1 eter ke dalam nilai input box hit setelah itu tekan receiveMoney  
Lalu nilainya akan berubah di akun 3 menjadi 101 dimana 101 dikarenakan fungsi withdrawmoneyto bakal menarik ether sepenuhnya



Kalo di receivemoney ga akan bisa langsung mengambil balance harus menunggu waktu yg telah ditentukan contoh di program ini waktunya 1 bit

