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Roll NO : 25

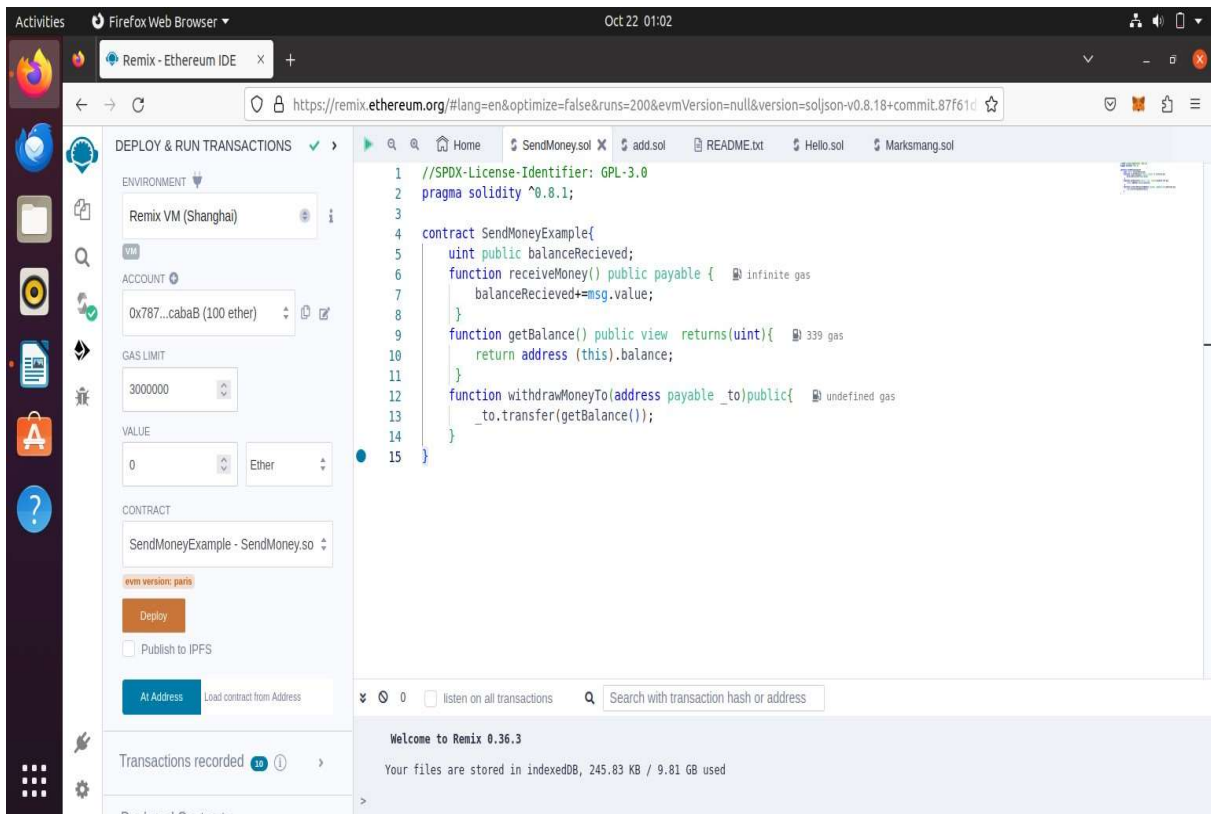
### Practical NO : 3

Aim : Write a smart contract on a test network, for Bank account of a customer for following operations: • Deposit money • Withdraw Money • Show balance.

Screenshots of performance :

Solidity Code :

```
//SPDX-License-Identifier: GPL-3.0 pragma
solidity ^0.8.1;
contract SendMoneyExample{ uint
public balanceRecieved; function
receiveMoney() public payable {
balanceRecieved+=msg.value;
}
function getBalance() public view returns(uint){
return address (this).balance;
}
function withdrawMoneyTo(address payable _to)public{
_to.transfer(getBalance());
}}
```



BT

Activities Firefox Web Browser Oct22 01:02

Remix - Ethereum IDE x +

https://remix.ethereum.org/#lang=en&optimize=false&runs=200&envVersion=soljson-v0.8.18&commit=87f67c

DEPLOY & RUN TRANSACTIONS

ENVIRONMENT

Remix VM (Shanghai)

ACCOUNT

Cx787...cabab (100 ether)

GAS LIMIT

3000000

VALUE

0

Ether

CONTRACT

SendMoneyExample - SendMoney.30

new version's parts

Deploy

Publish to IPFS

Address

Transactions recorded 13

Search with transaction hash or address

0 Listen on all transactions

0

SendMoney.sol \$ add sol \$ README.txt \$ HelloWorld \$ MakeTrang.sol

```
1 //SPDX-License-Identifier: GPL-3.0
2 pragma solidity ^0.8.1;
3
4 contract SendMoneyExample{
5     uint public balanceReceived;
6     function receiveMoney() public payable {
7         balanceReceived=msg.value;
8     }
9     function getBalance() public view returns(uint){
10         return address (this).balance;
11     }
12     function withdrawMoneyTo(address payable _to)public{
13         _to.transfer(getBalance());
14     }
15 }
```

339 gas

infinite gas

undefined gas

Welcome to Remix 0.36.3

Your files are stored in indexedDB, 245.83 KB / 9.31 GB used

Activities Firefox Web Browser Oct 22 01:03

Remix - Ethereum IDE x

https://remix.ethereum.org/#lang=en&optimize=false&uns=200&envVersion=null&version=soljs-v0.8.18--commit.87f51d

DEPLOY & RUN TRANSACTIONS

SendMoney.sol x \$ addsol \$ README.txt \$ Hello.sol \$ Marksmang.sol

1 //SPDX-License-Identifier: GPL-3.0  
2 pragma solidity ^0.8.1;  
3  
4 contract SendMoneyExample {  
5 uint public balanceReceived;  
6 function receiveMoney() public payable {  
7 balanceReceived += msg.value;  
8 }  
9 function getBalance() public view returns (uint) {  
10 return address(this).balance;  
11 }  
12 function withdrawMoneyTo(address payable \_to) public {  
13 \_to.transfer(getBalance());  
14 }  
15 }

Deploy

Publish to IPFS

At Address Load contract from Address

Transactions recorded 22

Deployed Contracts

SENDMONEYEXAMPLE AT 0XA13...EA

33 once 10 ETH

receiveMoney - transact (payable)

withdrawMoneyTo

Later receive...

Q: uint256: 3000000000000000000

getBalance

Q: uint256: 0

[vm] from: 0x617...5E7f2 to: SendMoneyExample.receiveMoney() 0xa13...d095 value: 1000000000000000000 wei data: 0x6d2...6ec13 logs: 0 hash: 0xc9f...59dc1

Let's go

BT

Activities Firefox Web Browser Oct 22 01:04

Remix - Ethereum IDE

https://remix.ethereum.org/#lang=en&optimize=false&runs=200&envm=version=soljson-v0.8.19+commit.87f61c

DEPLOY & RUN TRANSACTIONS

ENVIRONMENT

Remix VM (Shanghai)

ACCOUNT

0x17F...8c372 (100.99999999)

GAS LIMIT

3000000

VALUE

0

CONTRACT

SendMoneyExample - SendMoney.sol

SendMoneyExample

Deploy

Publish to IPFS

Address

Transactions recorded

1

1

```
1 //SPDX-License-Identifier: GPL-3.0
2 pragma solidity ^0.8.1;
3
4 contract SendMoneyExample{
5     uint public balanceReceived;
6     function receiveMoney() public payable {
7         balanceReceived+=msg.value;
8     }
9     function getBalance() public view returns(uint){
10         return address (this).balance;
11     }
12     function withdrawMoneyTo(address payable _to)public{
13         _to.transfer(getBalance());
14     }
15 }
```

0 Listen on all transactions Search with transaction hash or address

all [call] from: 0x17FAD05E1982297579C203059C13b1FE4345d372 to: SendMoneyExample.balanceReceived() data: 0x04c...95b0d

Debug

BT

Activities Firefox Web Browser Oct 22 01:04

Remix - Ethereum IDE x +

https://remix.ethereum.org/#lang=en&optimize=false&runs=200&evmVersion=null&version=soljson-v0.8.18+commit.87f51d

DEPLOY & RUN TRANSACTIONS

Deployed Contracts

SENDMONEYEXAMPLE AT 0XA13...E7

Balance: 0 ETH

receiveMoney

withdrawMoneyTo

CallData Parameters

Interact

balanceBefore...

0: 0x256: 4000000000000000000

getBalance

0: 0x256: 0

Low level interactions

CALLDATA

Transaction

SENDMONEYEXAMPLE AT 0XBBC...C1

Search with transaction hash or address

0x [call] from: 0x17F6408Ef562297579263063C10bFFe4348c372 to: SendMoneyExample.balanceReceived() data: 0xdac...06b8d

Debug

```
// SPDX-License-Identifier: GPL-3.0
pragma solidity ^8.8.1;

contract SendMoneyExample {
    uint public balanceReceived;
    function receiveMoney() public payable {
        balanceReceived+=msg.value;
    }
    function getBalance() public view returns(uint){
        return address (this).balance;
    }
    function withdrawMoneyTo(address payable _to)public{
        _to.transfer(getBalance());
    }
}
```

Activities Firefox Web Browser Oct 22 01:04

Remix - Ethereum IDE x +

https://remix.ethereum.org/#lang=en&optimize=false&runs=2008&envVersion=null&version=soljson-v0.8.18+commit.87f61d

DEPLOY & RUN TRANSACTIONS

ENVIRONMENT

Remix VM (Shanghai)

ACCOUNT

0x17f...36372 (109.99999999)

GAS LIMIT

3000000

VALUE

0

Either

CONTRACT

SendMoneyExample - SendMoney.sol

even version: pairs

Deploy

Publish to IPFS

At Address

Load contract from Address

Transactions recorded 24

DEVELOP

1 // SPDX-License-Identifier: GPL-3.0

2 pragma solidity ^8.8.1;

3

4 contract SendMoneyExample {

5 uint public balanceReceived;

6 function receiveMoney() public payable {

7 balanceReceived += msg.value;

8 }

9 function getBalance() public view returns (uint) {

10 return address(this).balance;

11 }

12 function withdrawMoneyTo(address payable \_to) public {

13 \_to.transfer(getBalance());

14 }

15 }

0

Listen on all transactions

Search with transaction hash or address

CALL

[call] from: 0x17f6b08ef98229759c203565c10c7fe4348c372 to: SendMoneyExample.balanceReceived() data: 0x04c...6668d

Debug

BT