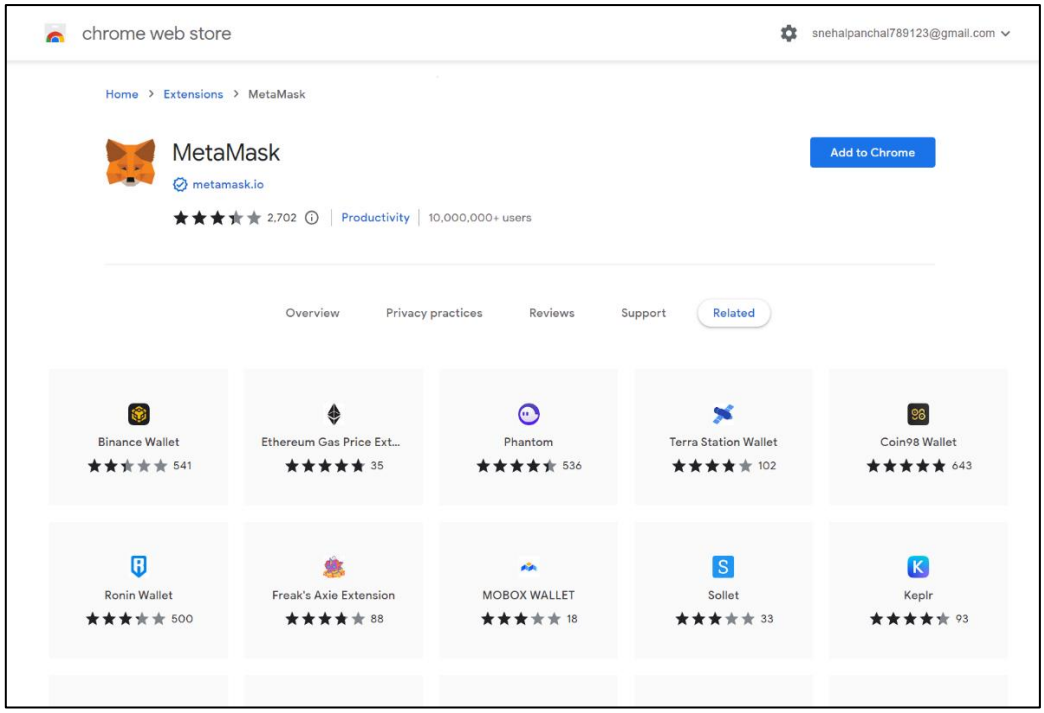
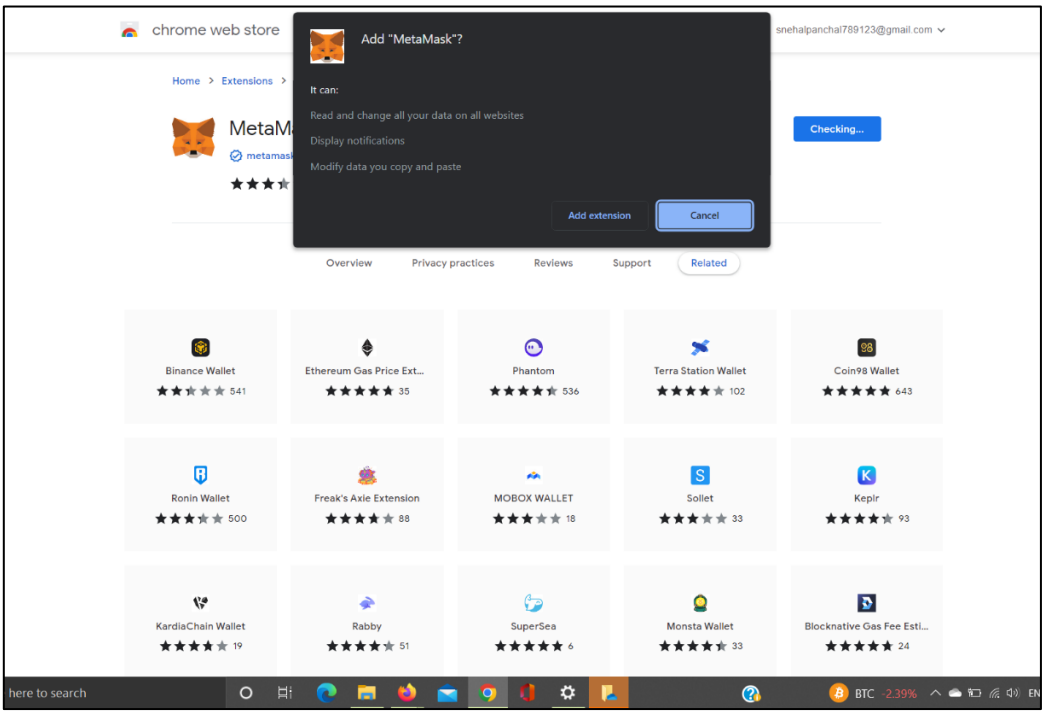
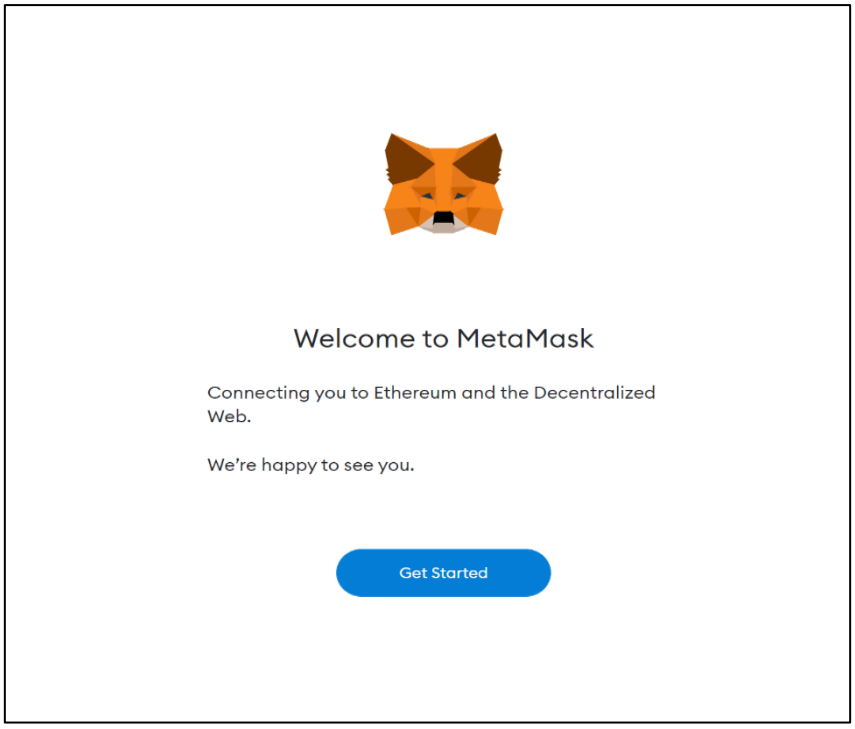
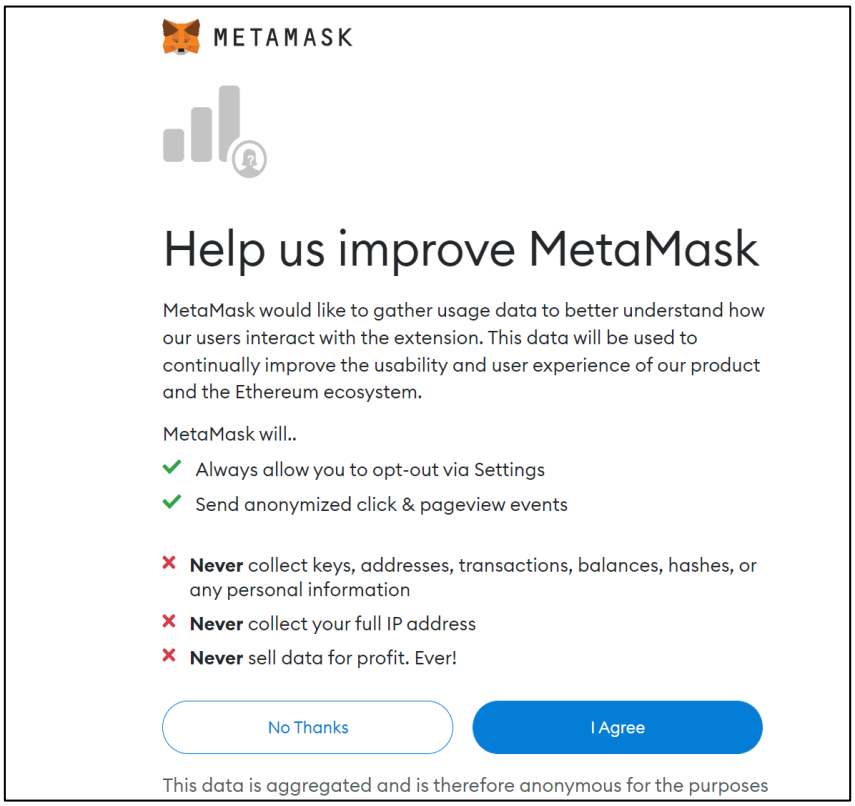
BLOCKCHAIN TECHNOLOGY

PRACTICAL 1






Welcome to MetaMask
Connecting you to Ethereum and the Decentralized Web.
We're happy to see you.
Get Started


METAMASK
Help us improve MetaMask
MetaMask would like to gather usage data to better understand how our users interact with the extension. This data will be used to continually improve the usability and user experience of our product and the Ethereum ecosystem.
MetaMask will..
Always allow you to opt-out via Settings
Send anonymized click & pageview events
Never collect keys, addresses, transactions, balances, hashes, or any personal information
Never collect your full IP address
Never sell data for profit. Ever!
No Thanks
I Agree
This data is aggregated and is therefore anonymous for the purposes

METAMASK

Congratulations

You passed the test - keep your Secret Recovery Phrase safe, it's your responsibility!

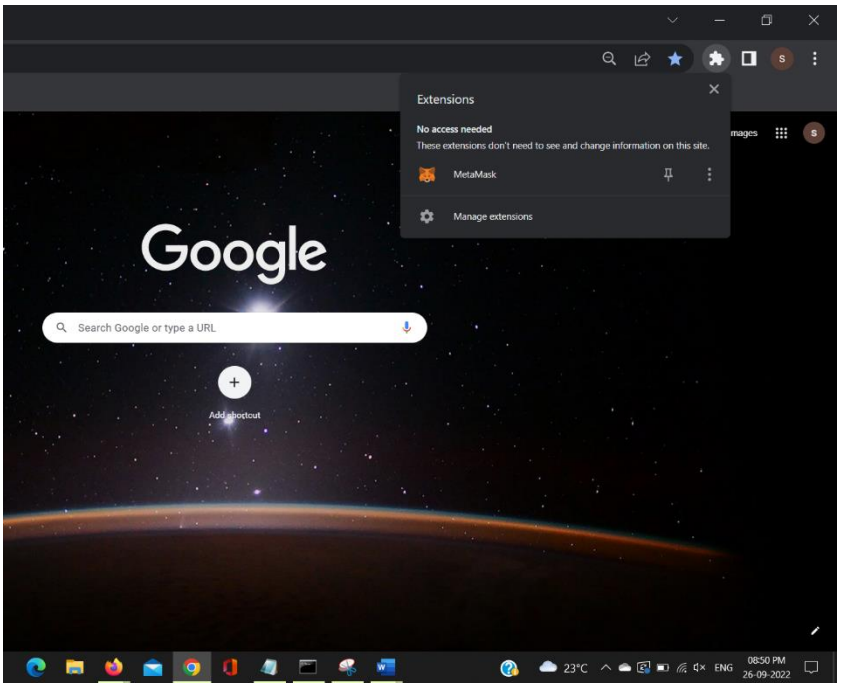
Tips on storing it safely

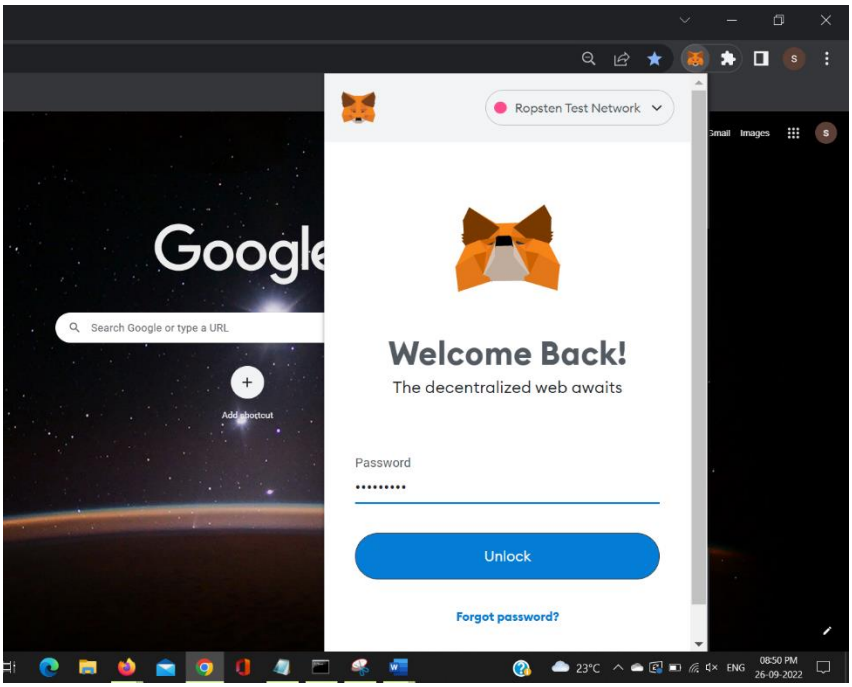
- Save a backup in multiple places.
- Never share the phrase with anyone.
- Be careful of phishing! MetaMask will never spontaneously ask for your Secret Recovery Phrase.
- If you need to back up your Secret Recovery Phrase again, you can find it in Settings -> Security.
- If you ever have questions or see something fishy, contact our support here.

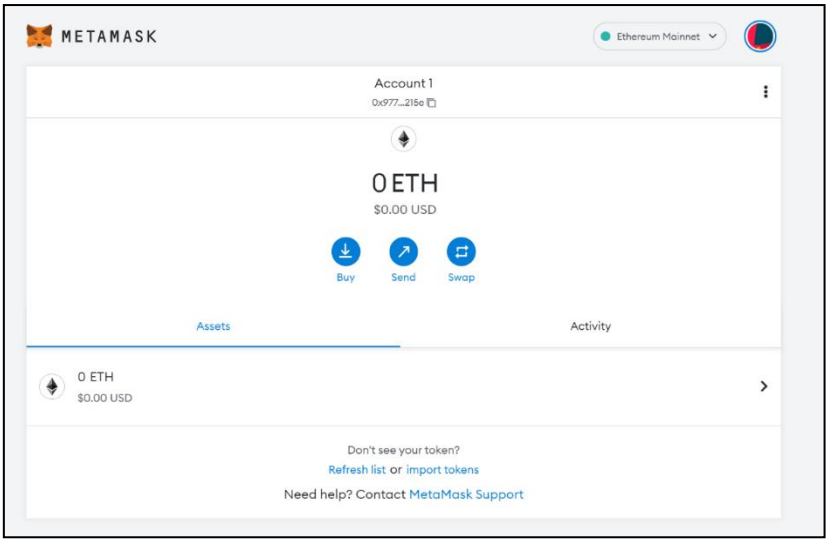
*MetaMask cannot recover your Secret Recovery Phrase. Learn more.

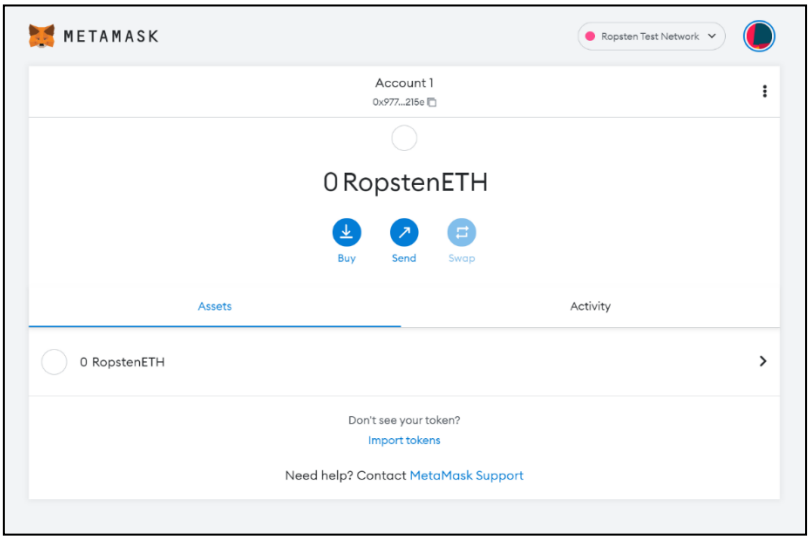
All Done

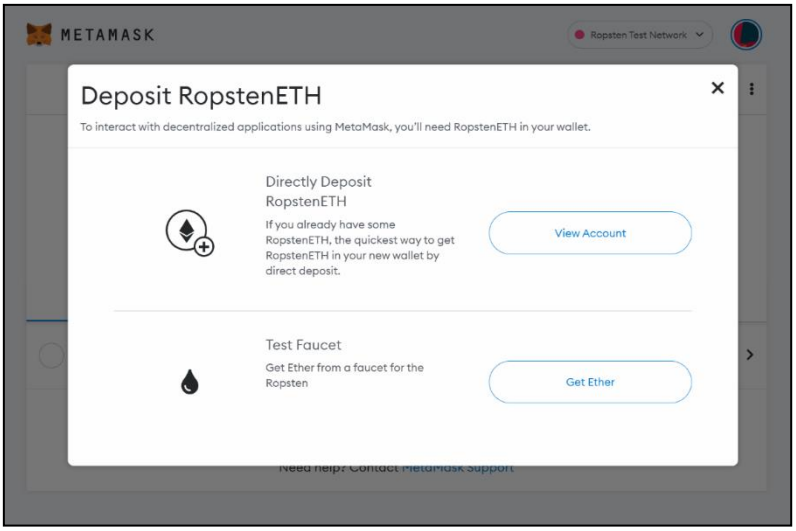
PRACTICAL 2

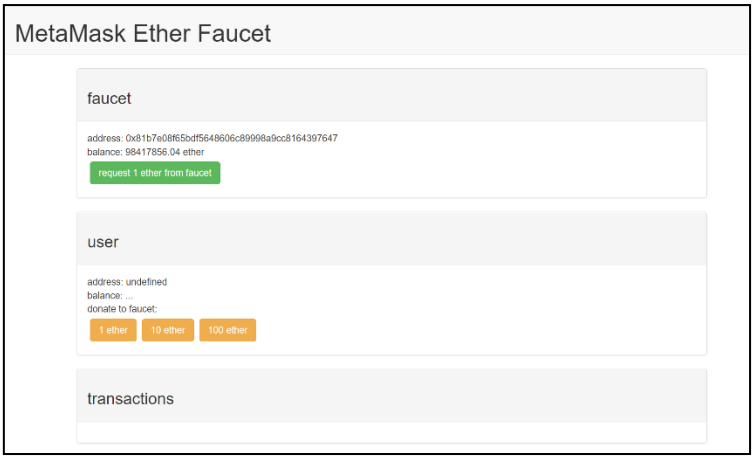

Extensions
No access needed
These extensions don't need to see and change information on this site.
MetaMask
Manage extensions
Google
Search Google or type a URL
Add shortcut
23°C
ENG
08:50 PM
26-09-2022

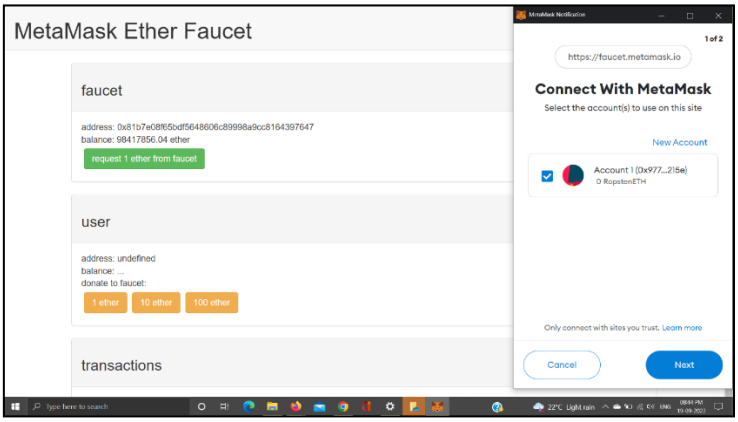

Ropsten Test Network
Welcome Back!
The decentralized web awaits
Password
Unlock
Forgot password?
Google
Search Google or type a URL
Add shortcut
23°C
ENG
08:50 PM
26-09-2022

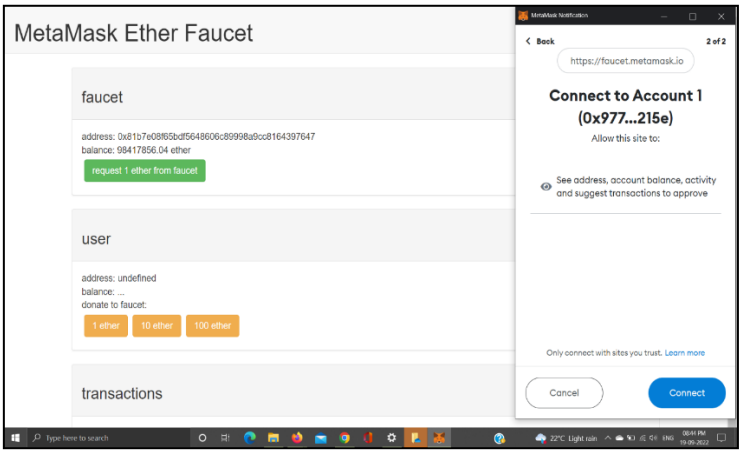

METAMASK
Ethereum Mainnet
Account 1
0x977...215e
0 ETH
$0.00 USD
Buy
Send
Swap
Assets
Activity
0 ETH
$0.00 USD
Don't see your token?
Refresh list or import tokens
Need help? Contact MetaMask Support

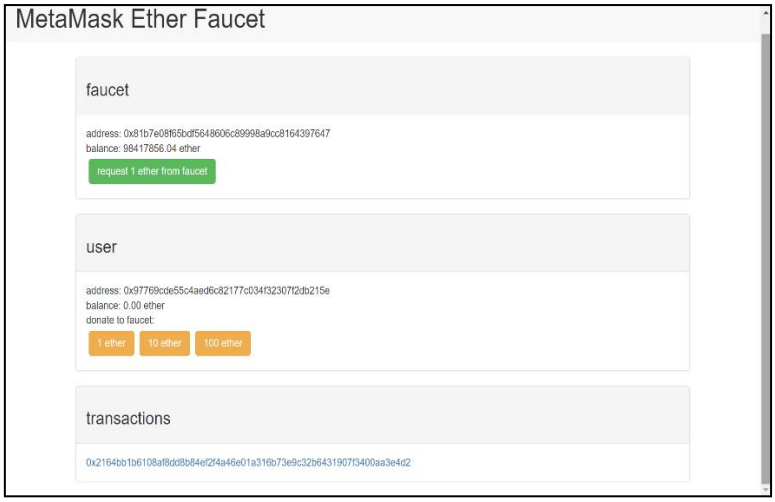

METAMASK
Ropsten Test Network
Account 1
0x977...215e
0 RopstenETH
Buy
Send
Swap
Assets
Activity
0 RopstenETH
Don't see your token?
Import tokens
Need help? Contact MetaMask Support

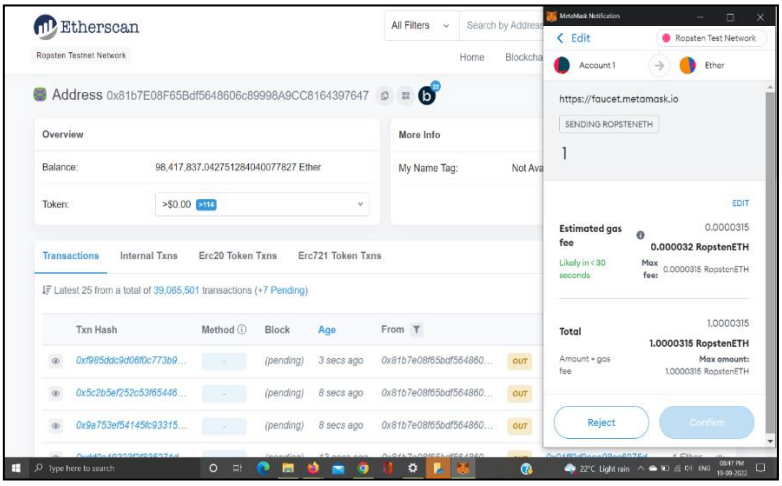

METAMASK
Ropsten Test Network
Deposit RopstenETH
To interact with decentralized applications using MetaMask, you'll need RopstenETH in your wallet.
Directly Deposit RopstenETH
If you already have some RopstenETH, the quickest way to get RopstenETH in your new wallet by direct deposit.
View Account
Test Faucet
Get Ether from a faucet for the Ropsten
Get Ether

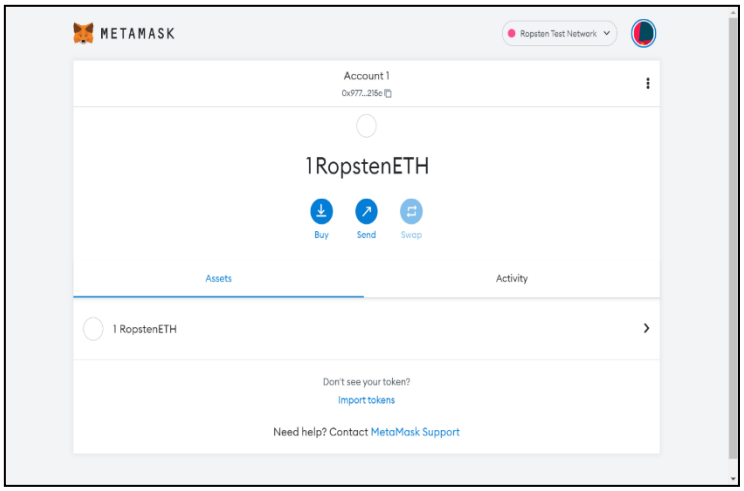

MetaMask Ether Faucet
faucet
address: 0x81b7e08f65bdf5648606c89998a9cc8164397647
balance: 98417856.04 ether
request 1 ether from faucet
user
address: undefined
balance: ...
donate to faucet:
1 ether
10 ether
100 ether
transactions

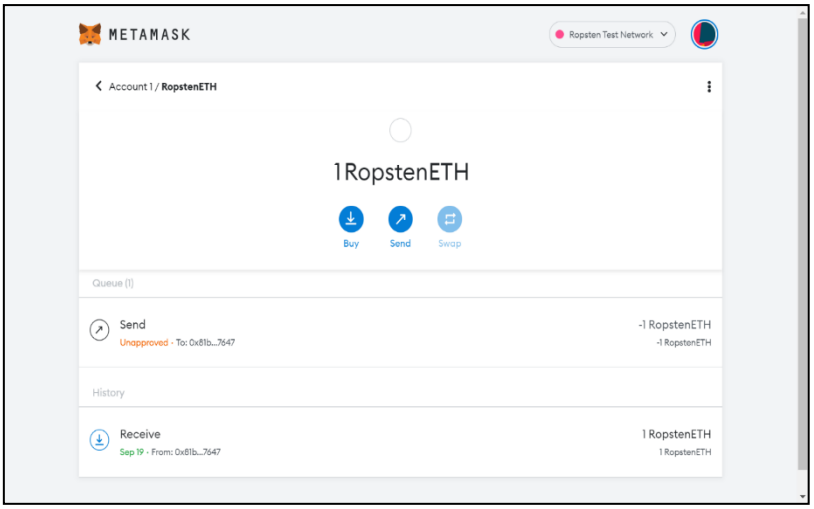

MetaMask Ether Faucet
faucet
address: 0x81b7e08f65bdf5648606c89998a9cc8164397647
balance: 98417856.04 ether
request 1 ether from faucet
user
address: undefined
balance: ...
donate to faucet:
1 ether
10 ether
100 ether
transactions
1 of 2
https://faucet.metamask.io
Connect With MetaMask
Select the account(s) to use on this site
New Account
Account 1 (0x977...215e)
0 RopstenETH
Only connect with sites you trust. Learn more
Cancel
Next

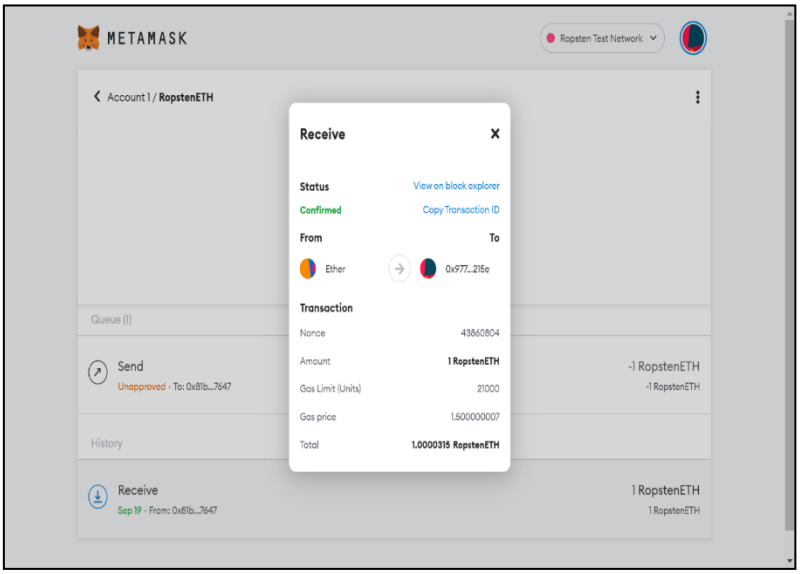

MetaMask Ether Faucet
faucet
address: 0x81b7e08f65bdf5648606c89998a9cc8164397647
balance: 98417856.04 ether
request 1 ether from faucet
user
address: undefined
balance: ...
donate to faucet:
1 ether
10 ether
100 ether
transactions
Back
2 of 2
https://faucet.metamask.io
Connect to Account 1 (0x977...215e)
Allow this site to:
See address, account balance, activity and suggest transactions to approve
Only connect with sites you trust. Learn more
Cancel
Connect


MetaMask Ether Faucet
faucet
address: 0x81b7e08f65bdf5648606c89998a9cc8164397647
balance: 98417856.04 ether
request 1 ether from faucet
user
address: 0x97769cde55c4aed6c82177c034f32307f2db215e
balance: 0.00 ether
donate to faucet:
1 ether
10 ether
100 ether
transactions
0x2164bb1b6108af8dd8b84ef2f4a46e01a316b73e9c32b6431907f3400aa3e4d2

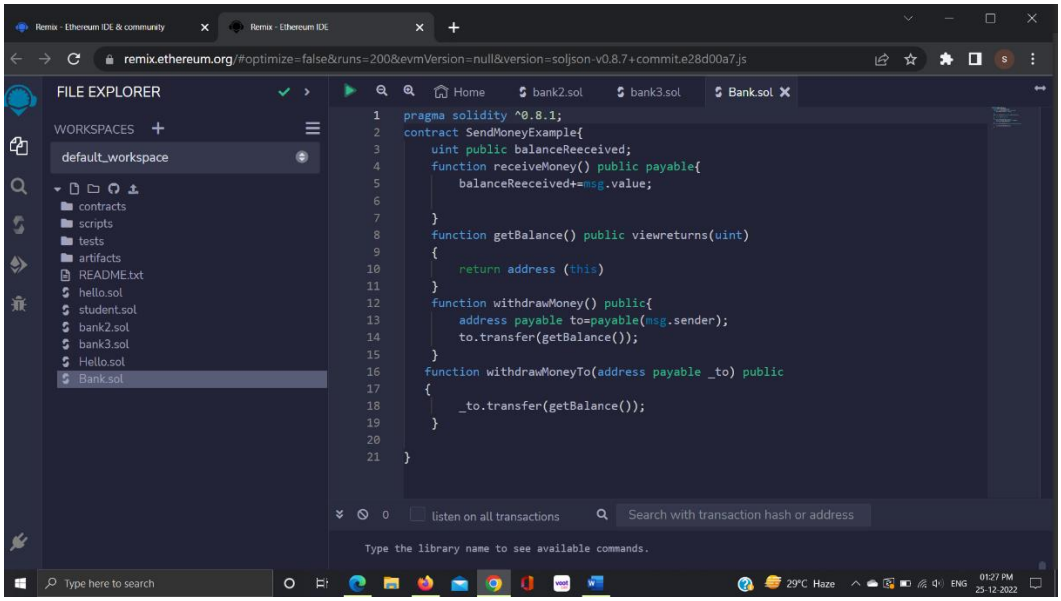

Etherscan
Ropsten Testnet Network
Address 0x81b7E08F65Bdf5648606c89998A9CC8164397647
Overview
Balance:
98,417,837.042751284040077827 Ether
Token:
Transactions
Internal Txns
Erc20 Token Txns
Erc721 Token Txns
Edit
Ropsten Test Network
Account 1
Ether
https://faucet.metamask.io
SENDING ROPSTENETH
1
Estimated gas fee
0.000032 RopstenETH
Total
1.0000315 RopstenETH
Reject
Confirm

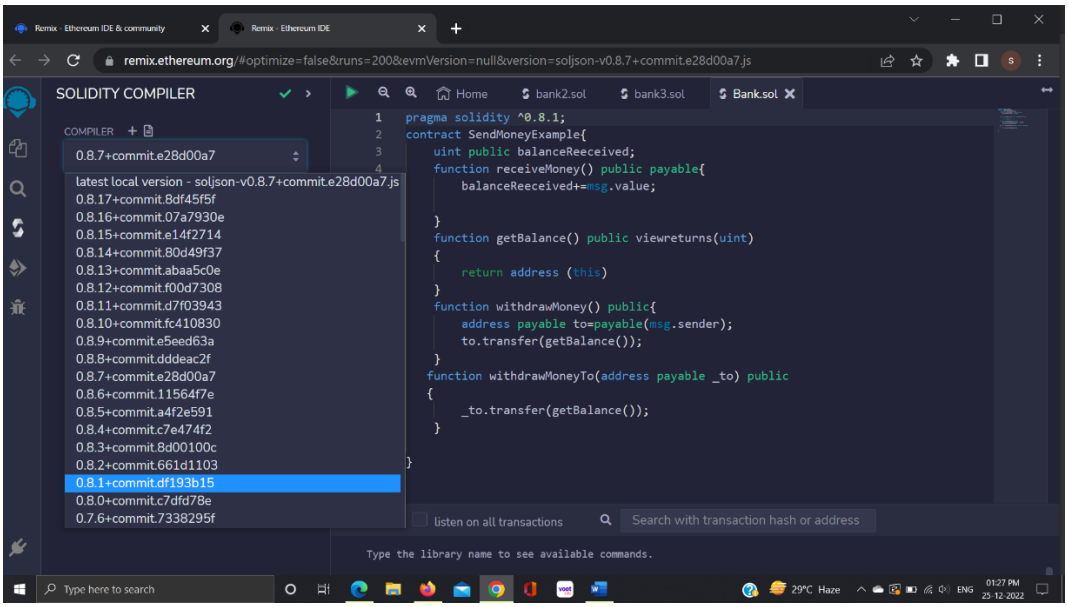

METAMASK
Ropsten Test Network
Account 1
1 RopstenETH
Buy
Send
Swap
Assets
Activity
1 RopstenETH
Don't see your token?
Import tokens
Need help? Contact MetaMask Support

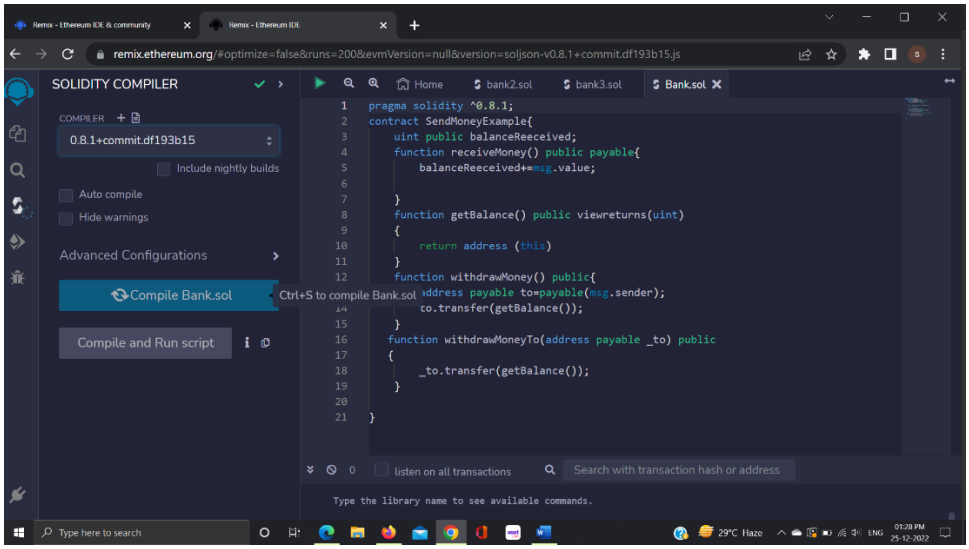

METAMASK
Ropsten Test Network
Account 1 / RopstenETH
1 RopstenETH
Buy
Send
Swap
Queue (1)
Send
Unapproved · To: 0x81b...7647
-1 RopstenETH
-1 RopstenETH
History
Receive
Sep 19 · From: 0x81b...7647
1 RopstenETH
1 RopstenETH

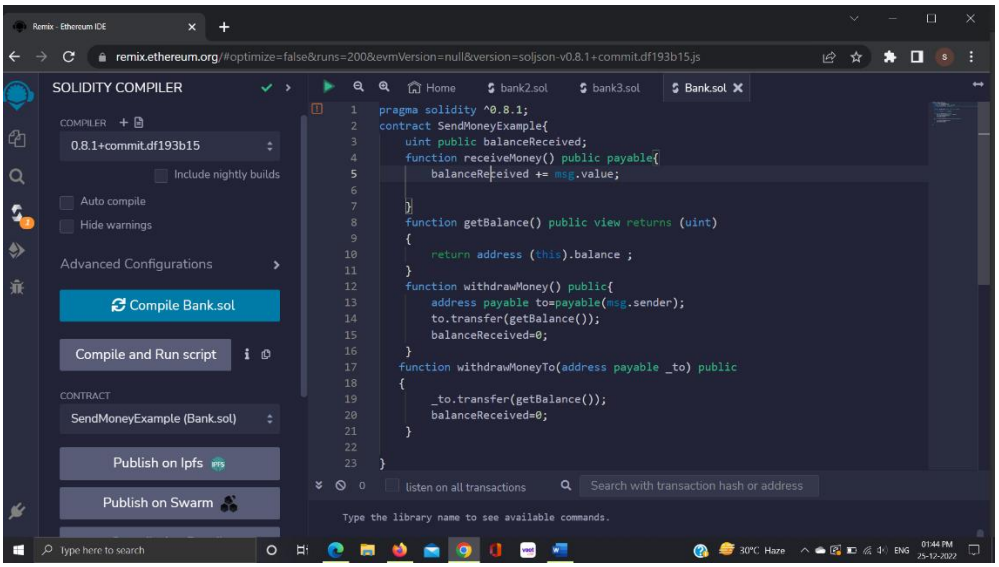

METAMASK
Ropsten Test Network
Account 1 / RopstenETH
Receive
Status
View on block explorer
Confirmed
Copy Transaction ID
From
To
Ether
0x977...215e
Transaction
Nonce
43860804
Amount
1 RopstenETH
Gas Limit (Units)
21000
Gas price
1.500000007
Total
1.0000315 RopstenETH
Queue (1)
Send
Unapproved · To: 0x81b...7647
-1 RopstenETH
-1 RopstenETH
History
Receive
Sep 19 · From: 0x81b...7647
1 RopstenETH
1 RopstenETH

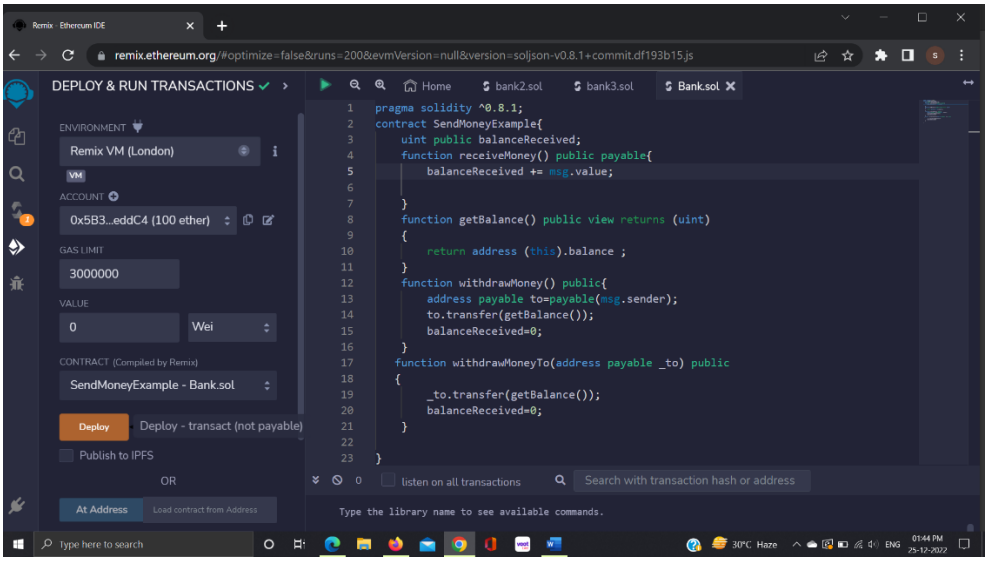
PRACTICAL 3

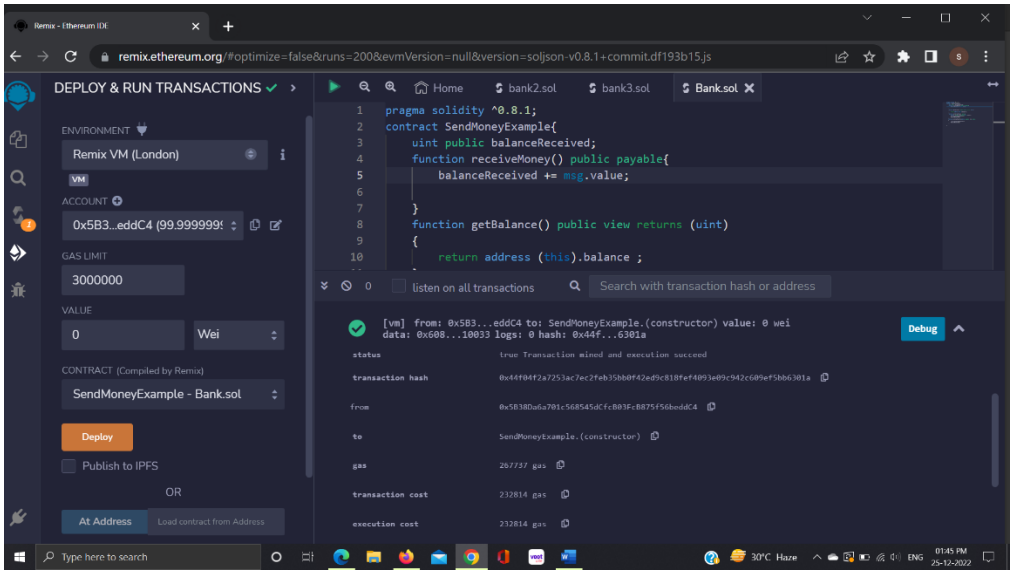

Remix - Ethereum IDE & community
Remix - Ethereum IDE
remix.ethereum.org/#optimize=false&runs=200&evmVersion=null&version=soljson-v0.8.7+commit.e28d00a7.js
FILE EXPLORER
WORKSPACES
default_workspace
contracts
scripts
tests
artifacts
README.txt
hello.sol
student.sol
bank2.sol
bank3.sol
Hello.sol
Bank.sol
Home
bank2.sol
bank3.sol
Bank.sol
pragma solidity ^0.8.1;
contract SendMoneyExample{
uint public balanceReeceived;
function receiveMoney() public payable{
balanceReeceived+=msg.value;
}
function getBalance() public viewreturns(uint)
{
return address (this)
}
function withdrawMoney() public{
address payable to=payable(msg.sender);
to.transfer(getBalance());
}
function withdrawMoneyTo(address payable _to) public
{
_to.transfer(getBalance());
}
}
listen on all transactions
Search with transaction hash or address
Type the library name to see available commands.
Type here to search
29°C Haze
ENG
01:27 PM
25-12-2022

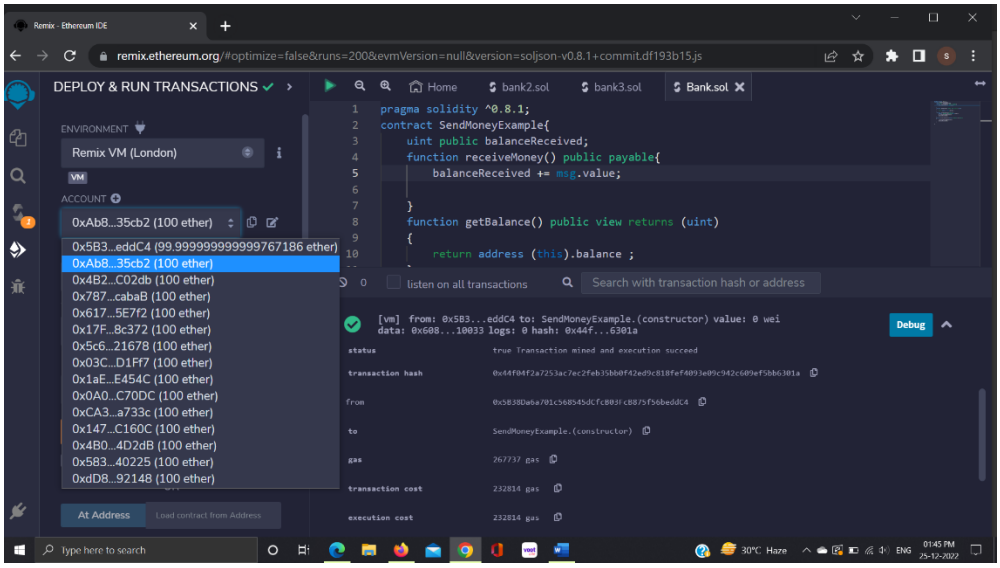

Remix - Ethereum IDE & community
Remix - Ethereum IDE
remix.ethereum.org/#optimize=false&runs=200&evmVersion=null&version=soljson-v0.8.7+commit.e28d00a7.js
SOLIDITY COMPILER
COMPILER
0.8.7+commit.e28d00a7
latest local version - soljson-v0.8.7+commit.e28d00a7.js
0.8.17+commit.8df45f5f
0.8.16+commit.07a7930e
0.8.15+commit.e14f2714
0.8.14+commit.80d49f37
0.8.13+commit.abaa5c0e
0.8.12+commit.f00d7308
0.8.11+commit.d7f03943
0.8.10+commit.fc410830
0.8.9+commit.e5eed63a
0.8.8+commit.dddeac2f
0.8.7+commit.e28d00a7
0.8.6+commit.11564f7e
0.8.5+commit.a4f2e591
0.8.4+commit.c7e474f2
0.8.3+commit.8d00100c
0.8.2+commit.661d1103
0.8.1+commit.df193b15
0.8.0+commit.c7dfd78e
0.7.6+commit.7338295f
Home
bank2.sol
bank3.sol
Bank.sol
pragma solidity ^0.8.1;
contract SendMoneyExample{
uint public balanceReeceived;
function receiveMoney() public payable{
balanceReeceived+=msg.value;
}
function getBalance() public viewreturns(uint)
{
return address (this)
}
function withdrawMoney() public{
address payable to=payable(msg.sender);
to.transfer(getBalance());
}
function withdrawMoneyTo(address payable _to) public
{
_to.transfer(getBalance());
}
}
listen on all transactions
Search with transaction hash or address
Type the library name to see available commands.
Type here to search
29°C Haze
ENG
01:27 PM
25-12-2022

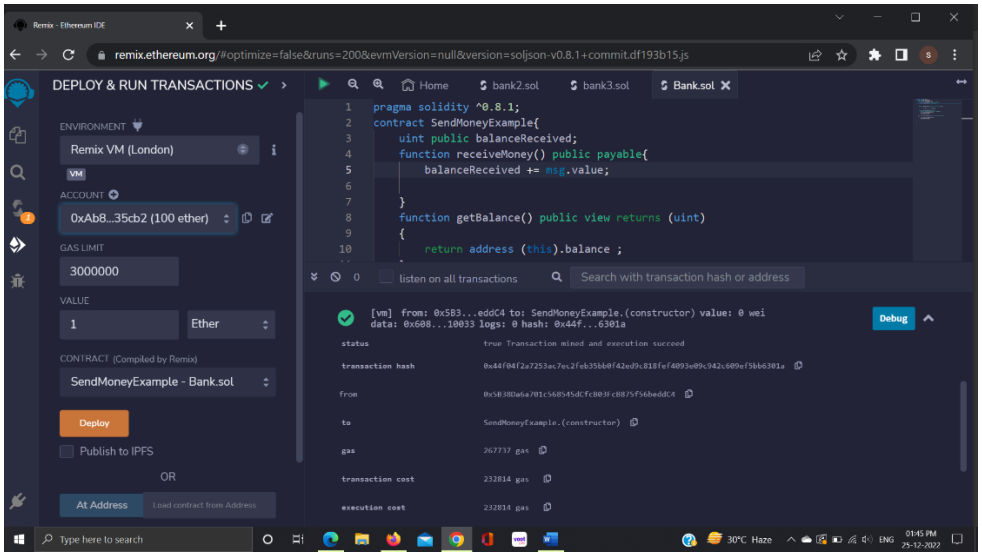

SOLIDITY COMPILER
COMPILER
0.8.1+commit.df193b15
Include nightly builds
Auto compile
Hide warnings
Advanced Configurations
Compile Bank.sol
Ctrl+S to compile Bank.sol
Compile and Run script
Home
bank2.sol
bank3.sol
Bank.sol
pragma solidity ^0.8.1;
contract SendMoneyExample{
uint public balanceReeceived;
function receiveMoney() public payable{
balanceReeceived+=msg.value;
}
function getBalance() public viewreturns(uint)
{
return address (this)
}
function withdrawMoney() public{
ddress payable to=payable(msg.sender);
co.transfer(getBalance());
}
function withdrawMoneyTo(address payable _to) public
{
_to.transfer(getBalance());
}
}
listen on all transactions
Search with transaction hash or address
Type the library name to see available commands.

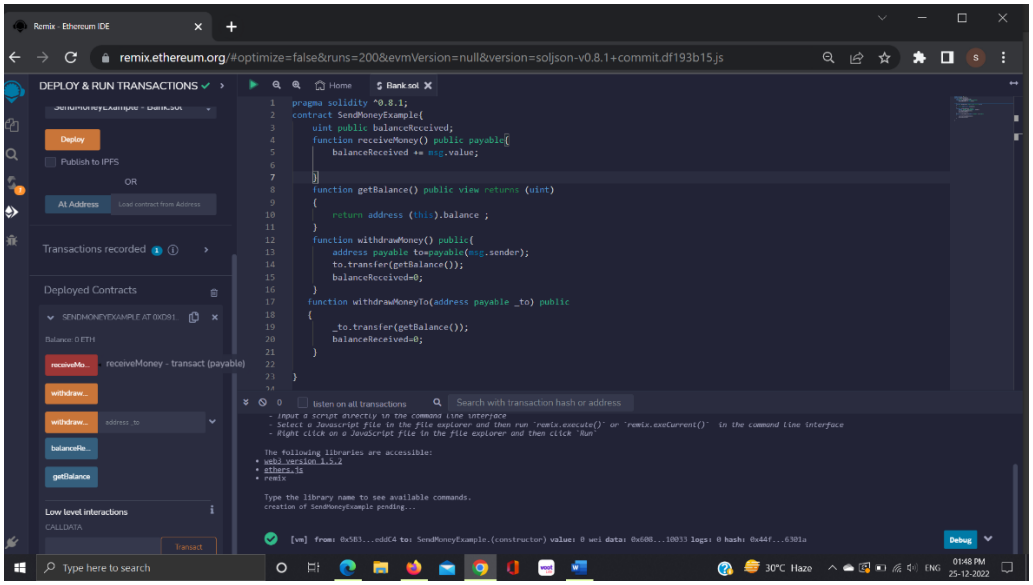

SOLIDITY COMPILER
COMPILER
0.8.1+commit.df193b15
Include nightly builds
Auto compile
Hide warnings
Advanced Configurations
Compile Bank.sol
Compile and Run script
CONTRACT
SendMoneyExample (Bank.sol)
Publish on Ipfs
Publish on Swarm
Home
bank2.sol
bank3.sol
Bank.sol
pragma solidity ^0.8.1;
contract SendMoneyExample{
uint public balanceReceived;
function receiveMoney() public payable{
balanceReceived += msg.value;
}
function getBalance() public view returns (uint)
{
return address (this).balance ;
}
function withdrawMoney() public{
address payable to=payable(msg.sender);
to.transfer(getBalance());
balanceReceived=0;
}
function withdrawMoneyTo(address payable _to) public
{
_to.transfer(getBalance());
balanceReceived=0;
}
}
listen on all transactions
Search with transaction hash or address
Type the library name to see available commands.

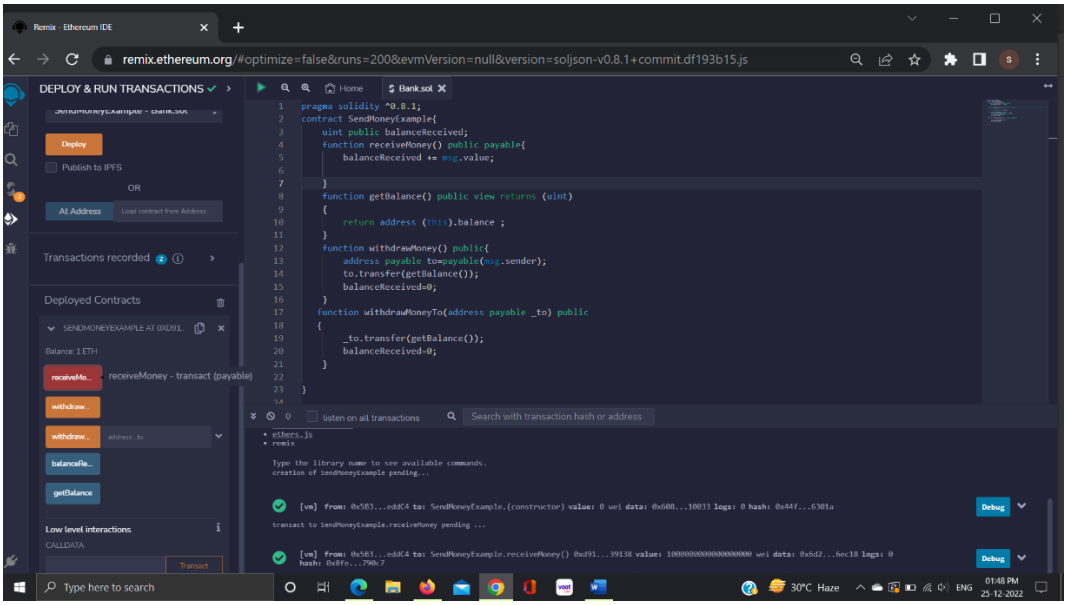

DEPLOY & RUN TRANSACTIONS
ENVIRONMENT
Remix VM (London)
VM
ACCOUNT
0x5B3...eddC4 (100 ether)
GAS LIMIT
3000000
VALUE
0
Wei
CONTRACT (Compiled by Remix)
SendMoneyExample - Bank.sol
Deploy
Deploy - transact (not payable)
Publish to IPFS
OR
At Address
Load contract from Address
Home
bank2.sol
bank3.sol
Bank.sol
pragma solidity ^0.8.1;
contract SendMoneyExample{
uint public balanceReceived;
function receiveMoney() public payable{
balanceReceived += msg.value;
}
function getBalance() public view returns (uint)
{
return address (this).balance ;
}
function withdrawMoney() public{
address payable to=payable(msg.sender);
to.transfer(getBalance());
balanceReceived=0;
}
function withdrawMoneyTo(address payable _to) public
{
_to.transfer(getBalance());
balanceReceived=0;
}
}
listen on all transactions
Search with transaction hash or address
Type the library name to see available commands.

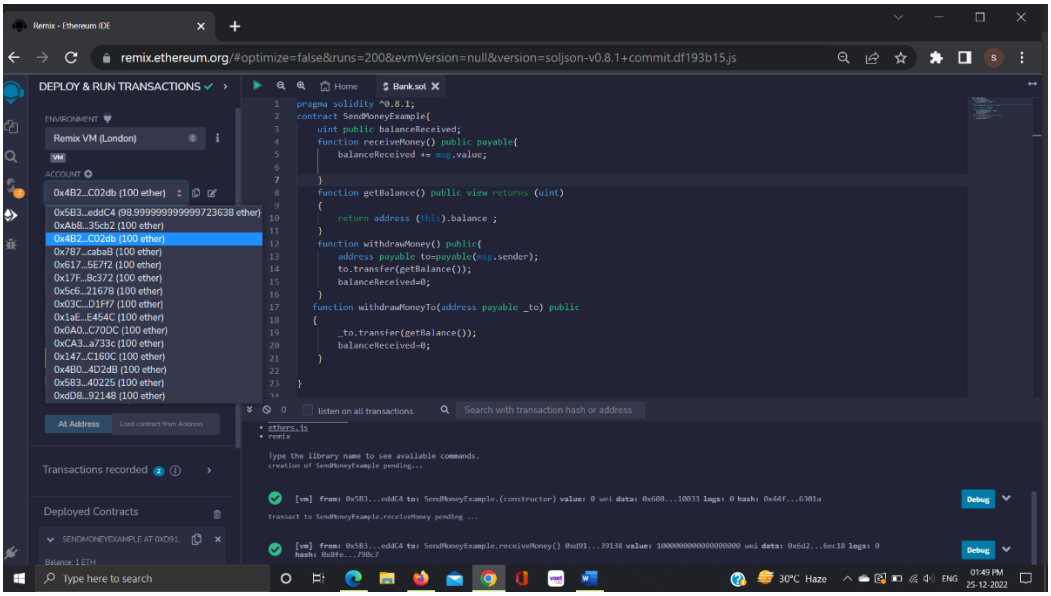

Remix - Ethereum IDE
remix.ethereum.org/#optimize=false&runs=200&evmVersion=null&version=soljson-v0.8.1+commit.df193b15.js
DEPLOY & RUN TRANSACTIONS
ENVIRONMENT
Remix VM (London)
VM
ACCOUNT
0x5B3...eddC4 (99.999999
GAS LIMIT
3000000
VALUE
0
Wei
CONTRACT (Compiled by Remix)
SendMoneyExample - Bank.sol
Deploy
Publish to IPFS
OR
At Address
Load contract from Address
Home
bank2.sol
bank3.sol
Bank.sol
pragma solidity ^0.8.1;
contract SendMoneyExample{
uint public balanceReceived;
function receiveMoney() public payable{
balanceReceived += msg.value;
}
function getBalance() public view returns (uint)
{
return address (this).balance ;
listen on all transactions
Search with transaction hash or address
[vm] from: 0x5B3...eddC4 to: SendMoneyExample.(constructor) value: 0 wei
data: 0x608...10033 logs: 0 hash: 0x44f...6301a
Debug
status
true Transaction mined and execution succeed
transaction hash
from
to
SendMoneyExample.(constructor)
gas
267737 gas
transaction cost
232814 gas
execution cost
232814 gas
Type here to search
30°C Haze
ENG
01:45 PM
25-12-2022

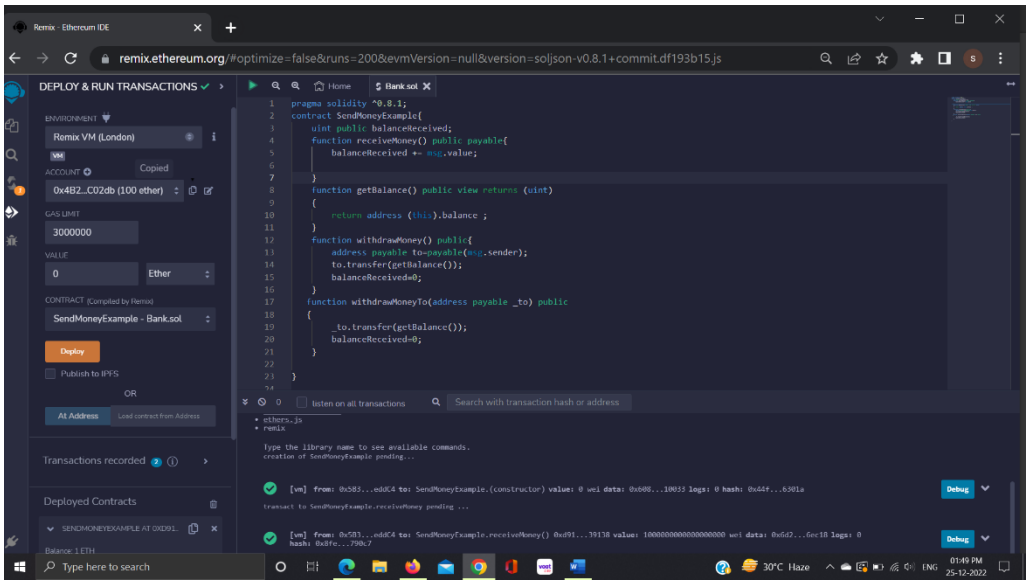

Remix - Ethereum IDE
remix.ethereum.org/#optimize=false&runs=200&evmVersion=null&version=soljson-v0.8.1+commit.df193b15.js
DEPLOY & RUN TRANSACTIONS
ENVIRONMENT
Remix VM (London)
VM
ACCOUNT
0xAb8...35cb2 (100 ether)
0x5B3...eddC4 (99.999999999999767186 ether)
0xAb8...35cb2 (100 ether)
0x4B2...C02db (100 ether)
0x787...cabaB (100 ether)
0x617...5E7f2 (100 ether)
0x17F...8c372 (100 ether)
0x5c6...21678 (100 ether)
0x03C...D1Ff7 (100 ether)
0x1aE...E454C (100 ether)
0x0A0...C70DC (100 ether)
0xCA3...a733c (100 ether)
0x147...C160C (100 ether)
0x4B0...4D2dB (100 ether)
0x583...40225 (100 ether)
0xdD8...92148 (100 ether)
At Address
Load contract from Address
Home
bank2.sol
bank3.sol
Bank.sol
pragma solidity ^0.8.1;
contract SendMoneyExample{
uint public balanceReceived;
function receiveMoney() public payable{
balanceReceived += msg.value;
}
function getBalance() public view returns (uint)
{
return address (this).balance ;
listen on all transactions
Search with transaction hash or address
[vm] from: 0x5B3...eddC4 to: SendMoneyExample.(constructor) value: 0 wei
data: 0x608...10033 logs: 0 hash: 0x44f...6301a
Debug
status
true Transaction mined and execution succeed
transaction hash
from
to
SendMoneyExample.(constructor)
gas
267737 gas
transaction cost
232814 gas
execution cost
232814 gas
Type here to search
30°C Haze
ENG
01:45 PM
25-12-2022

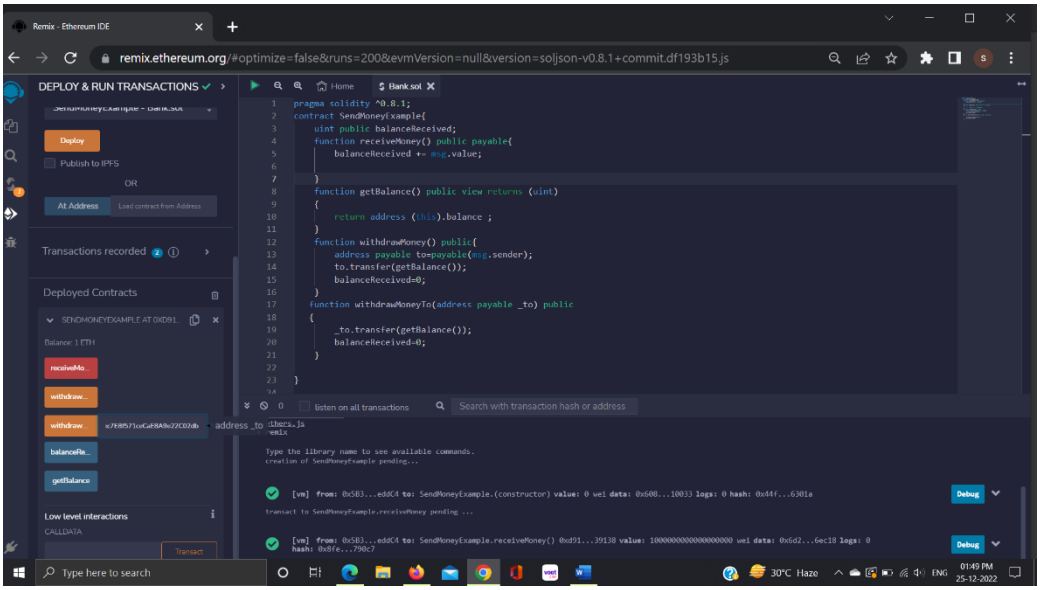

Remix - Ethereum IDE
remix.ethereum.org/#optimize=false&runs=200&evmVersion=null&version=soljson-v0.8.1+commit.df193b15.js
DEPLOY & RUN TRANSACTIONS
ENVIRONMENT
Remix VM (London)
VM
ACCOUNT
0xAb8...35cb2 (100 ether)
GAS LIMIT
3000000
VALUE
1
Ether
CONTRACT (Compiled by Remix)
SendMoneyExample - Bank.sol
Deploy
Publish to IPFS
OR
At Address
Load contract from Address
Home
bank2.sol
bank3.sol
Bank.sol
pragma solidity ^0.8.1;
contract SendMoneyExample{
uint public balanceReceived;
function receiveMoney() public payable{
balanceReceived += msg.value;
}
function getBalance() public view returns (uint)
{
return address (this).balance ;
listen on all transactions
Search with transaction hash or address
[vm] from: 0x5B3...eddC4 to: SendMoneyExample.(constructor) value: 0 wei
data: 0x608...10033 logs: 0 hash: 0x44f...6301a
Debug
status
true Transaction mined and execution succeed
transaction hash
from
to
SendMoneyExample.(constructor)
gas
267737 gas
transaction cost
232814 gas
execution cost
232814 gas
Type here to search
30°C Haze
ENG
01:45 PM
25-12-2022

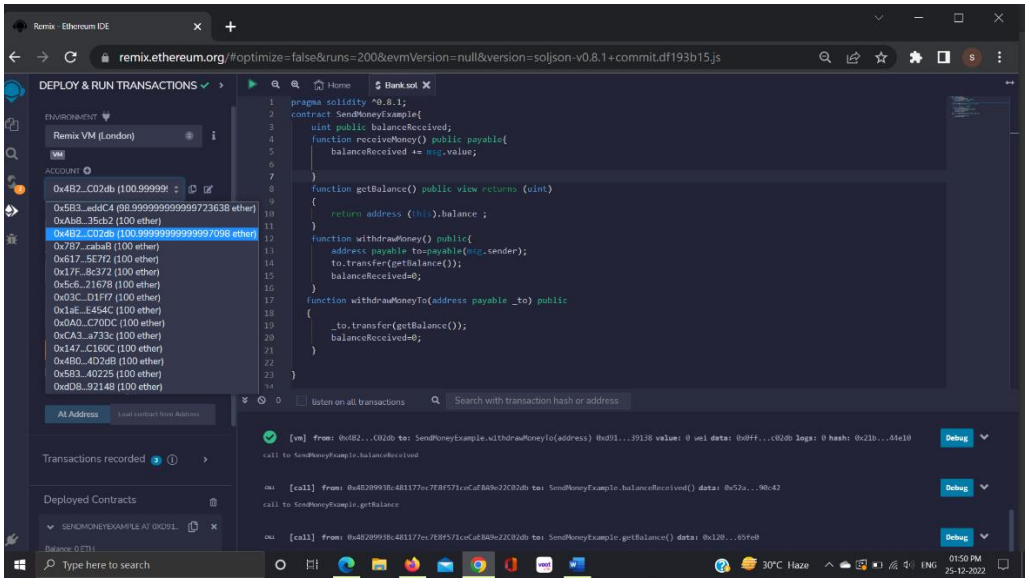

Remix - Ethereum IDE
remix.ethereum.org/#optimize=false&runs=200&evmVersion=null&version=soljson-v0.8.1+commit.df193b15.js
DEPLOY & RUN TRANSACTIONS
Deploy
Publish to IPFS
OR
At Address
Transactions recorded
Deployed Contracts
Low level interactions
CALLDATA
Transact
Bank.sol
pragma solidity ^0.8.1;
contract SendMoneyExample{
uint public balanceReceived;
function receiveMoney() public payable{
balanceReceived += msg.value;
}
function getBalance() public view returns (uint)
{
return address (this).balance ;
}
function withdrawMoney() public{
address payable to=payable(msg.sender);
to.transfer(getBalance());
balanceReceived=0;
}
function withdrawMoneyTo(address payable _to) public
{
_to.transfer(getBalance());
balanceReceived=0;
}
}
Type here to search
30°C Haze
ENG
01:48 PM
25-12-2022


Remix - Ethereum IDE
remix.ethereum.org/#optimize=false&runs=200&evmVersion=null&version=soljson-v0.8.1+commit.df193b15.js
DEPLOY & RUN TRANSACTIONS
Deploy
Publish to IPFS
OR
At Address
Transactions recorded
Deployed Contracts
Low level interactions
CALLDATA
Transact
Bank.sol
pragma solidity ^0.8.1;
contract SendMoneyExample{
uint public balanceReceived;
function receiveMoney() public payable{
balanceReceived += msg.value;
}
function getBalance() public view returns (uint)
{
return address (this).balance ;
}
function withdrawMoney() public{
address payable to=payable(msg.sender);
to.transfer(getBalance());
balanceReceived=0;
}
function withdrawMoneyTo(address payable _to) public
{
_to.transfer(getBalance());
balanceReceived=0;
}
}
Type here to search
30°C Haze
ENG
01:48 PM
25-12-2022

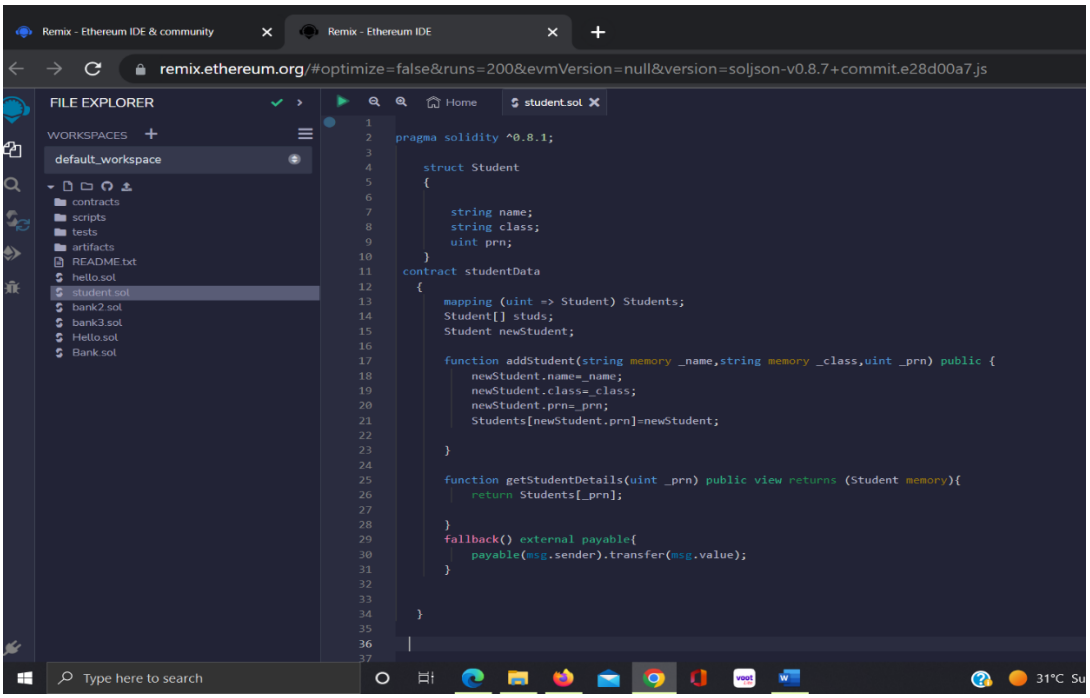

Remix - Ethereum IDE
remix.ethereum.org/#optimize=false&runs=200&evmVersion=null&version=soljson-v0.8.1+commit.df193b15.js
DEPLOY & RUN TRANSACTIONS
ENVIRONMENT
Remix VM (London)
ACCOUNT
0x4B2...C02db (100 ether)
0x5B3...eddC4 (98.999999999999723638 ether)
0xAb8...35cb2 (100 ether)
0x4B2...C02db (100 ether)
0x7B7...cabaB (100 ether)
0x617...5E7f2 (100 ether)
0x17F...8c372 (100 ether)
0x5c6...2167B (100 ether)
0x03C...D1Ff7 (100 ether)
0x1aE...E454C (100 ether)
0x0A0...C70DC (100 ether)
0xCA3...a733c (100 ether)
0x147...C160C (100 ether)
0x4B0...4D2dB (100 ether)
0x5B3...40225 (100 ether)
0xdD8...92148 (100 ether)
At Address
Transactions recorded
Deployed Contracts
Bank.sol
pragma solidity ^0.8.1;
contract SendMoneyExample{
uint public balanceReceived;
function receiveMoney() public payable{
balanceReceived += msg.value;
}
function getBalance() public view returns (uint)
{
return address (this).balance ;
}
function withdrawMoney() public{
address payable to=payable(msg.sender);
to.transfer(getBalance());
balanceReceived=0;
}
function withdrawMoneyTo(address payable _to) public
{
_to.transfer(getBalance());
balanceReceived=0;
}
}
Type here to search
30°C Haze
ENG
01:49 PM
25-12-2022

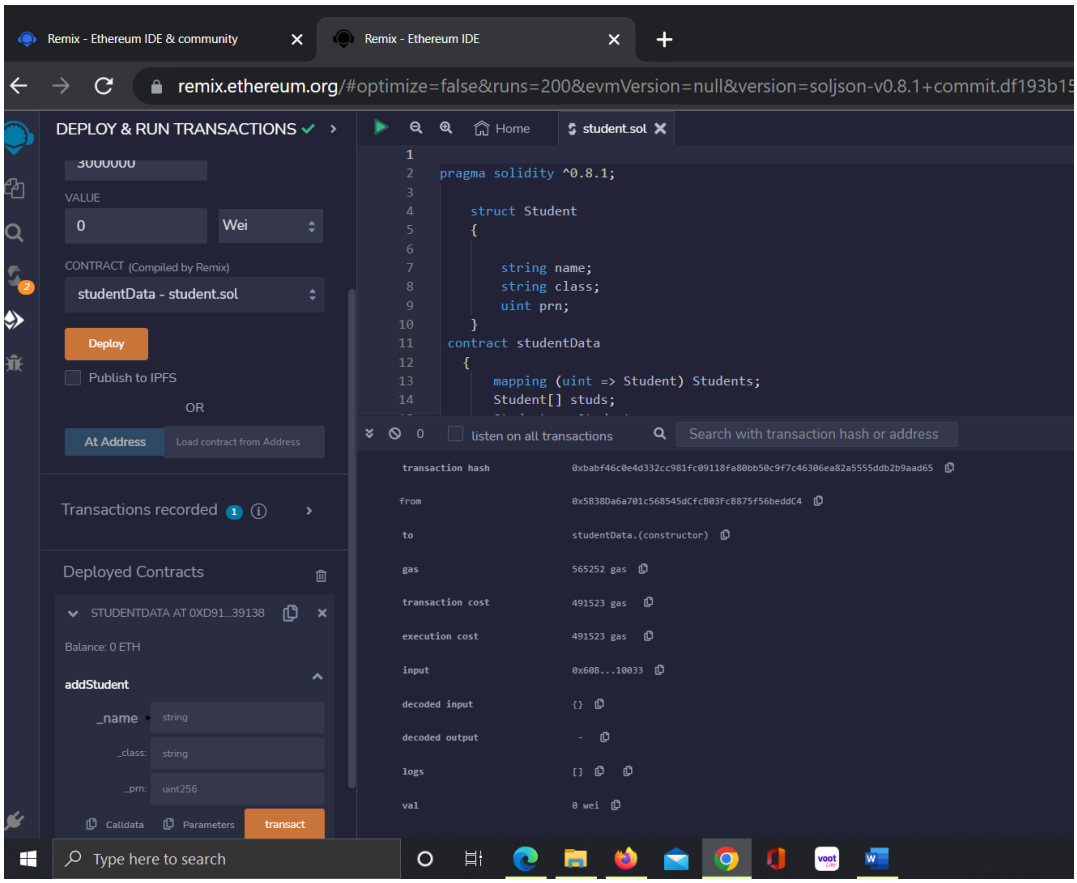

Remix - Ethereum IDE
remix.ethereum.org/#optimize=false&runs=200&evmVersion=null&version=soljson-v0.8.1+commit.df193b15.js
DEPLOY & RUN TRANSACTIONS
ENVIRONMENT
Remix VM (London)
ACCOUNT
Copied
0x4B2...C02db (100 ether)
GAS LIMIT
3000000
VALUE
0
Ether
CONTRACT (Compiled by Remix)
SendMoneyExample - Bank.sol
Deploy
Publish to IPFS
OR
At Address
Load contract from Address
Transactions recorded
Deployed Contracts
Bank.sol
pragma solidity ^0.8.1;
contract SendMoneyExample{
uint public balanceReceived;
function receiveMoney() public payable{
balanceReceived += msg.value;
}
function getBalance() public view returns (uint)
{
return address (this).balance ;
}
function withdrawMoney() public{
address payable to=payable(msg.sender);
to.transfer(getBalance());
balanceReceived=0;
}
function withdrawMoneyTo(address payable _to) public
{
_to.transfer(getBalance());
balanceReceived=0;
}
}
Type here to search
30°C Haze
01:49 PM
25-12-2022

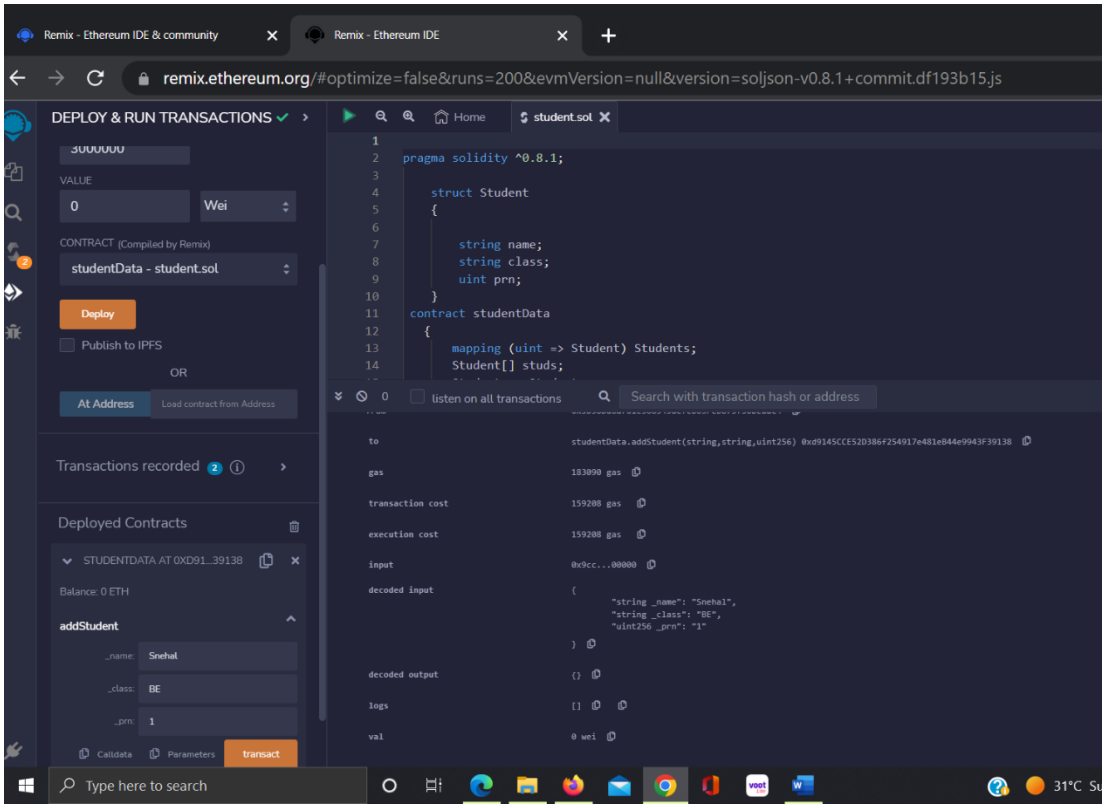

Remix - Ethereum IDE
remix.ethereum.org/#optimize=false&runs=200&evmVersion=null&version=soljson-v0.8.1+commit.df193b15.js
DEPLOY & RUN TRANSACTIONS
Deploy
Publish to IPFS
OR
At Address
Transactions recorded
Deployed Contracts
Balance: 1 ETH
receiveMo...
withdraw...
balanceRe...
getBalance
Low level interactions
CALLDATA
Transact
Bank.sol
pragma solidity ^0.8.1;
contract SendMoneyExample{
uint public balanceReceived;
function receiveMoney() public payable{
balanceReceived += msg.value;
}
function getBalance() public view returns (uint)
{
return address (this).balance ;
}
function withdrawMoney() public{
address payable to=payable(msg.sender);
to.transfer(getBalance());
balanceReceived=0;
}
function withdrawMoneyTo(address payable _to) public
{
_to.transfer(getBalance());
balanceReceived=0;
}
}
Type here to search
30°C Haze
01:49 PM
25-12-2022

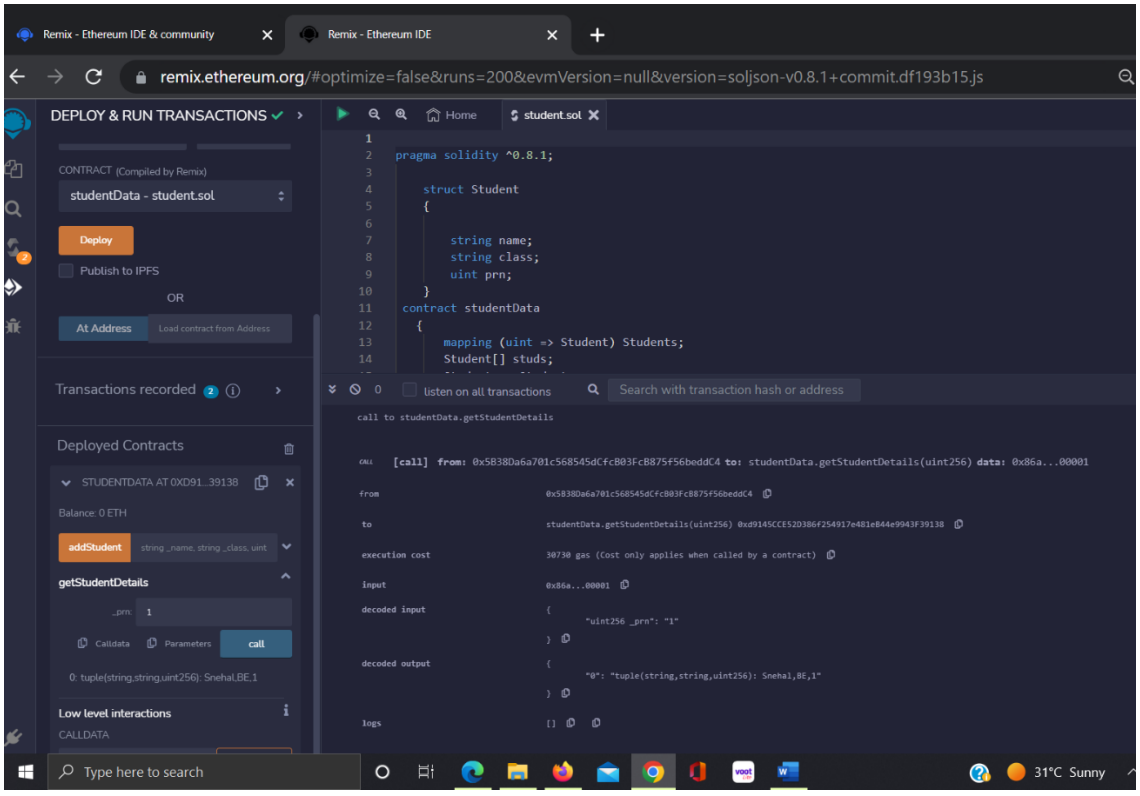

Remix - Ethereum IDE
remix.ethereum.org/#optimize=false&runs=200&evmVersion=null&version=soljson-v0.8.1+commit.df193b15.js
DEPLOY & RUN TRANSACTIONS
ENVIRONMENT
Remix VM (London)
ACCOUNT
0x4B2...C02db (100.99999
0x5B3...eddC4 (98.999999999999723638 ether)
0xAb8...35cb2 (100 ether)
0x4B2...C02db (100.999999999999997098 ether)
0x787...cabaB (100 ether)
0x617...5E7f2 (100 ether)
0x17F...8c372 (100 ether)
0x5c6...21678 (100 ether)
0x03C...D1F77 (100 ether)
0x1aE...E454C (100 ether)
0x0A0...C70DC (100 ether)
0xCA3...a733c (100 ether)
0x147...C160C (100 ether)
0x4B0...4D2dB (100 ether)
0x583...40225 (100 ether)
0xdD8...92148 (100 ether)
At Address
Transactions recorded
Deployed Contracts
Balance: 0 ETH
Bank.sol
pragma solidity ^0.8.1;
contract SendMoneyExample{
uint public balanceReceived;
function receiveMoney() public payable{
balanceReceived += msg.value;
}
function getBalance() public view returns (uint)
{
return address (this).balance ;
}
function withdrawMoney() public{
address payable to=payable(msg.sender);
to.transfer(getBalance());
balanceReceived=0;
}
function withdrawMoneyTo(address payable _to) public
{
_to.transfer(getBalance());
balanceReceived=0;
}
}
Type here to search
30°C Haze
01:50 PM
25-12-2022

PRACTICAL 4


Remix - Ethereum IDE & community
Remix - Ethereum IDE
remix.ethereum.org/#optimize=false&runs=200&evmVersion=null&version=soljson-v0.8.7+commit.e28d00a7.js
FILE EXPLORER
WORKSPACES
default_workspace
contracts
scripts
tests
artifacts
README.txt
hello.sol
student.sol
bank2.sol
bank3.sol
Hello.sol
Bank.sol
Home
student.sol
pragma solidity ^0.8.1;
struct Student
{
string name;
string class;
uint prn;
}
contract studentData
{
mapping (uint => Student) Students;
Student[] studs;
Student newStudent;
function addStudent(string memory _name,string memory _class,uint _prn) public {
newStudent.name=_name;
newStudent.class=_class;
newStudent.prn=_prn;
Students[newStudent.prn]=newStudent;
}
function getStudentDetails(uint _prn) public view returns (Student memory){
return Students[_prn];
}
fallback() external payable{
payable(msg.sender).transfer(msg.value);
}
}
Type here to search
31°C


Remix - Ethereum IDE & community
Remix - Ethereum IDE
remix.ethereum.org/#optimize=false&runs=200&evmVersion=null&version=soljson-v0.8.1+commit.df193b15
DEPLOY & RUN TRANSACTIONS
VALUE
0
Wei
CONTRACT (Compiled by Remix)
studentData - student.sol
Deploy
Publish to IPFS
OR
At Address
Load contract from Address
Transactions recorded
Deployed Contracts
STUDENTDATA AT 0XD91...39138
Balance: 0 ETH
addStudent
_name
string
_class:
string
_prn:
uint256
Calldata
Parameters
transact
Home
student.sol
pragma solidity ^0.8.1;
struct Student
{
string name;
string class;
uint prn;
}
contract studentData
{
mapping (uint => Student) Students;
Student[] studs;
listen on all transactions
Search with transaction hash or address
transaction hash
0xbabf46c0e4d332cc981fc09118fa80bb50c9f7c46306ea82a5555ddb2b9aad65
from
0x5B38Da6a701c568545dCfcB03FcB875f56beddC4
to
studentData.(constructor)
gas
565252 gas
transaction cost
491523 gas
execution cost
491523 gas
input
0x608...10033
decoded input
{}
decoded output
-
logs
[]
val
0 wei
Type here to search


Remix - Ethereum IDE & community
Remix - Ethereum IDE
remix.ethereum.org/#optimize=false&runs=200&evmVersion=null&version=soljson-v0.8.1+commit.df193b15.js
DEPLOY & RUN TRANSACTIONS
VALUE
0
Wei
CONTRACT (Compiled by Remix)
studentData - student.sol
Deploy
Publish to IPFS
OR
At Address
Load contract from Address
Transactions recorded
Deployed Contracts
STUDENTDATA AT 0XD91...39138
Balance: 0 ETH
addStudent
_name: Snehal
_class: BE
_prn: 1
Calldata
Parameters
transact
Home
student.sol
pragma solidity ^0.8.1;
struct Student
{
string name;
string class;
uint prn;
}
contract studentData
{
mapping (uint => Student) Students;
Student[] studs;
listen on all transactions
Search with transaction hash or address
to
studentData.addStudent(string,string,uint256) 0xd9145CCE52D386f254917e481e844e9943F39138
gas
183090 gas
transaction cost
159208 gas
execution cost
159208 gas
input
0x9cc...00000
decoded input
{
"string _name": "Snehal",
"string _class": "BE",
"uint256 _prn": "1"
}
decoded output
{}
logs
[]
val
0 wei
Type here to search
31°C


Remix - Ethereum IDE & community
Remix - Ethereum IDE
remix.ethereum.org/#optimize=false&runs=200&evmVersion=null&version=soljson-v0.8.1+commit.df193b15.js
DEPLOY & RUN TRANSACTIONS
CONTRACT (Compiled by Remix)
studentData - student.sol
Deploy
Publish to IPFS
OR
At Address
Load contract from Address
Transactions recorded
Deployed Contracts
STUDENTDATA AT 0XD91...39138
Balance: 0 ETH
addStudent
string _name, string _class, uint
getStudentDetails
_prn: 1
Calldata
Parameters
call
0: tuple(string,string,uint256): Snehal,BE,1
Low level interactions
CALLDATA
Home
student.sol
pragma solidity ^0.8.1;
struct Student
{
string name;
string class;
uint prn;
}
contract studentData
{
mapping (uint => Student) Students;
Student[] studs;
listen on all transactions
Search with transaction hash or address
call to studentData.getStudentDetails
CALL [call] from: 0x5B38Da6a701c568545dCfcB03FcB875f56beddC4 to: studentData.getStudentDetails(uint256) data: 0x86a...00001
from
0x5B38Da6a701c568545dCfcB03FcB875f56beddC4
to
studentData.getStudentDetails(uint256) 0xd9145CCE52D386f254917e481e844e9943F39138
execution cost
30730 gas (Cost only applies when called by a contract)
input
0x86a...00001
decoded input
{
"uint256 _prn": "1"
}
decoded output
{
"0": "tuple(string,string,uint256): Snehal,BE,1"
}
logs
[]
Type here to search
31°C Sunny