

Activities

Microsoft Edge

Jan 8 16:54

Assignment 3 | Assignment | npci-blockchain-assignment | remix ide - Search | Remix - Ethereum IDE

https://remix.ethereum.org/#lang=en&optimize=false&runs=200&evmVersion=null&version=soljson-v0.8.26+commit.8a97fa7a.js

DEPLOY & RUN TRANSACTIONS

Deployed Contracts

ERC20Token AT 0x93F...C96C

ERC20Token AT 0xEf9...10E8

Balance: 0 ETH

approve

burn

mint

transfer

transferFrom

allowance

balanceOf

decimals

name

symbol

totalSupply

Low level interactions

ERC20Token.sol

```
1 // SPDX-License-Identifier: MIT
2 pragma solidity ^0.8.0;
3
4 contract ERC20Token {
5     string public name = "MyToken";
6 }
```

0 Listen on all transactions Filter with transaction hash or address

creation of ERC20Token pending...

[vm] from: 0x5B3...eddc4 to: ERC20Token.(constructor) value: 0 wei data: 0x608...003e8 logs: 1 hash: 0x5ce...97c14

call to ERC20Token.balanceOf

[call] from: 0x5B38Da6a701c568545dCfcB03FcB875f56beddC4 to: ERC20Token.balanceOf(address) data: 0x70a...eddc4

transact to ERC20Token.transfer pending ...

[vm] from: 0xA88...35cb2 to: ERC20Token.transfer(address,uint256) 0xEf9...10E8f value: 0 wei data: 0xa90...00064 logs: 0 hash: 0xe7c...b502a

transact to ERC20Token.transfer errored: Error occurred: revert.

revert

The transaction has been reverted to the initial state.

Reason provided by the contract: "Insufficient balance".

If the transaction failed for not having enough gas, try increasing the gas limit gently.

Scam Alert Initialize as git repo

Did you know? You can use the help of AI for Solidity error, click on "Ask RemixAI".

RemixAI Copilot (disabled)

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DEPLOY & RUN TRANSACTIONS

approve

spender: 0xAb8483F64d9C6d1EcF9b8494

value: 10

CallDataParameterstransact

burn

uint256 value

mint

uint256 value

transfer

to: 0xAb8483F64d9C6d1EcF9b8494

value: 100

CallDataParameterstransact

transferFrom

from: 0x5B38Da6a701c568545dCfcB03FcB875f56beddC4

to: 0x4B20993Bc481177ec7E8f571c

value: 100

CallDataParameterstransact

allowance

owner: 0x5B38Da6a701c568545dCfcB03FcB875f56beddC4

spender: 0xAb8483F64d9C6d1EcF9b8494

CallDataParameterscall

0: uint256: 10

balanceOf

account: 0xAb8483F64d9C6d1EcF9b8494

CallDataParameterscall

0: uint256: 100

ERC20Token.sol

```
1 // SPDX-License-Identifier: MIT
2 pragma solidity ^0.8.0;
3
4 contract ERC20Token {
5     string public name = "MyToken";
6     uint256 public totalSupply;
7     mapping(address => uint256) public balanceOf;
8     mapping(address => mapping(address => uint256)) public allowance;
9
10    constructor(uint256 _totalSupply) {
11        totalSupply = _totalSupply;
12    }
13
14    function approve(address _spender, uint256 _value) public {
15        allowance[msg.sender][_spender] = _value;
16        emit Approval(msg.sender, _spender, _value);
17    }
18
19    function burn(uint256 _value) public {
20        _removeFromBalance(msg.sender, _value);
21    }
22
23    function mint(uint256 _value) public {
24        _addToBalance(msg.sender, _value);
25    }
26
27    function transfer(address _to, uint256 _value) public {
28        _transfer(msg.sender, _to, _value);
29    }
30
31    function transferFrom(address _from, address _to, uint256 _value) public {
32        _transfer(_from, _to, _value);
33    }
34
35    function allowance(address _owner, address _spender) public view returns (uint256) {
36        return allowance[_owner][_spender];
37    }
38
39    function _addToBalance(address _account, uint256 _value) private {
40        balanceOf[_account] += _value;
41    }
42
43    function _removeFromBalance(address _account, uint256 _value) private {
44        balanceOf[_account] -= _value;
45    }
46
47    function _transfer(address _from, address _to, uint256 _value) private {
48        require(balanceOf[_from] >= _value, "ERC20: insufficient balance");
49        balanceOf[_from] -= _value;
50        balanceOf[_to] += _value;
51    }
52}
```

0 Listen on all transactions Filter with transaction hash or address

call [call] from: 0x5B38Da6a701c568545dCfcB03FcB875f56beddC4 to: ERC20Token.balanceOf(address) data: 0x70a...35cb2

call to ERC20Token.balanceOf

call [call] from: 0x5B38Da6a701c568545dCfcB03FcB875f56beddC4 to: ERC20Token.balanceOf(address) data: 0x70a...35cb2

transact to ERC20Token.approve pending ...

✓ [vm] from: 0x5B3...eddC4 to: ERC20Token.approve(address,uint256) 0xEf9...10e8f value: 0 wei data: 0x095...0000a logs: 1 hash: 0x7d4...e825f

call to ERC20Token.allowance

call [call] from: 0x5B38Da6a701c568545dCfcB03FcB875f56beddC4 to: ERC20Token.allowance(address,address) data: 0xdd6...35cb2

call to ERC20Token.allowance

call [call] from: 0x5B38Da6a701c568545dCfcB03FcB875f56beddC4 to: ERC20Token.allowance(address,address) data: 0xdd6...35cb2

transact to ERC20Token.approve pending ...

✓ [vm] from: 0x5B3...eddC4 to: ERC20Token.approve(address,uint256) 0xEf9...10e8f value: 0 wei data: 0x095...0000a logs: 1 hash: 0xf3c...f2e60

call to ERC20Token.allowance

call [call] from: 0x5B38Da6a701c568545dCfcB03FcB875f56beddC4 to: ERC20Token.allowance(address,address) data: 0xdd6...35cb2

transact to ERC20Token.transferFrom pending ...

✗ [vm] from: 0xAb8...35cb2 to: ERC20Token.transferFrom(address,address,uint256) 0xEf9...10e8f value: 0 wei data: 0x23b...00664 logs: 0 hash: 0x0e3...0e53d

transact to ERC20Token.transferFrom errored: Error occurred: revert.

revert

The transaction has been reverted to the initial state.  
Reason provided by the contract: "Allowance exceeded".  
If the transaction failed for not having enough gas, try increasing the gas limit gently.

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RemixAI Copilot (enabled)

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DEPLOY & RUN TRANSACTIONS

Calldata

Parameters

transact

burn

uint256 value

mint

100

transfer

to: 0xAb843F64d9C6d1EcF9b849A

value: 100

Calldata

Parameters

transact

transferFrom

from: 0x5B38Da6a701c568545dCfC803FcB875f56beddC4

to: 0x4B20993Bc481177ec7E8f571c

value: 100

Calldata

Parameters

transact

allowance

owner: 0x5B38Da6a701c568545dCfC803FcB875f56beddC4

spender: 0xAb843F64d9C6d1EcF9b849A

Calldata

Parameters

call

to: uint256: 10

balanceOf

account: 0xAb843F64d9C6d1EcF9b849A

Calldata

Parameters

call

to: uint256: 200

decimals

name

symbol

ERC20Token.sol

```
1 // SPDX-License-Identifier: MIT
2 pragma solidity ^0.8.0;
3
4 contract ERC20Token {
5     string public name = "MyToken";
6     uint256 public decimals = 18;
7     uint256 public totalSupply = 1000000;
8     mapping(address => uint256) public balanceOf;
9     mapping(address => uint256) public allowance;
10
11     function burn(uint256 value) public {
12         _burn(msg.sender, value);
13     }
14
15     function mint(uint256 value) public {
16         _mint(msg.sender, value);
17     }
18
19     function transfer(address to, uint256 value) public {
20         _transfer(msg.sender, to, value);
21     }
22
23     function transferFrom(address from, address to, uint256 value) public {
24         _transferFrom(from, to, value);
25     }
26
27     function allowance(address owner, address spender) public view returns (uint256) {
28         return allowance[spender];
29     }
30
31     function approve(address spender, uint256 value) public {
32         _approve(msg.sender, spender, value);
33     }
34
35     function _burn(address account, uint256 value) internal {
36         balanceOf[account] -= value;
37         totalSupply -= value;
38     }
39
40     function _mint(address account, uint256 value) internal {
41         totalSupply += value;
42         balanceOf[account] += value;
43     }
44
45     function _transfer(address from, address to, uint256 value) internal {
46         _transferFrom(from, to, value);
47     }
48
49     function _transferFrom(address from, address to, uint256 value) internal {
50         allowance[from] -= value;
51         balanceOf[from] -= value;
52         balanceOf[to] += value;
53     }
54
55     function _approve(address owner, address spender, uint256 value) internal {
56         allowance[spender] = value;
57     }
58 }
```

0

☐ Listen on all transactions

Filter with transaction hash or address

call to ERC20Token.allowance

[call] from: 0x5B38Da6a701c568545dCfC803FcB875f56beddC4 to: ERC20Token.allowance(address,address) data: 0xdd6...35cb2

call to ERC20Token.allowance

[call] from: 0x5B38Da6a701c568545dCfC803FcB875f56beddC4 to: ERC20Token.allowance(address,address) data: 0xdd6...35cb2

transact to ERC20Token.approve pending ...

[vm] from: 0x5B3...eddC4 to: ERC20Token.approve(address,uint256) 0xEf9...10eBf value: 0 wei data: 0x095...0000a logs: 1 hash: 0xf3c...f2e60

call to ERC20Token.allowance

[call] from: 0x5B38Da6a701c568545dCfC803FcB875f56beddC4 to: ERC20Token.allowance(address,address) data: 0xdd6...35cb2

transact to ERC20Token.transferFrom pending ...

[vm] from: 0xAb8...35cb2 to: ERC20Token.transferFrom(address,address,uint256) 0xEf9...10eBf value: 0 wei data: 0x23b...00664 logs: 0 hash: 0x0e3...0e53d

transact to ERC20Token.transferFrom errored: Error occurred: revert.

revert

The transaction has been reverted to the initial state.

Reason provided by the contract: "Allowance exceeded".

If the transaction failed for not having enough gas, try increasing the gas limit gently.

call to ERC20Token.balanceOf

[call] from: 0xAb843F64d9C6d1EcF9b849Ae677d3315835cb2 to: ERC20Token.balanceOf(address) data: 0x70a...35cb2

transact to ERC20Token.mint pending ...

[vm] from: 0xAb8...35cb2 to: ERC20Token.mint(uint256) 0xEf9...10eBf value: 0 wei data: 0xa07...00664 logs: 1 hash: 0x2ab...0e2ad

call to ERC20Token.balanceOf

[call] from: 0xAb843F64d9C6d1EcF9b849Ae677d3315835cb2 to: ERC20Token.balanceOf(address) data: 0x70a...35cb2

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DEPLOY & RUN TRANSACTIONS

Calldata

Parameters

transact

burn

50

mint

100

transfer

to: 0xAb843F64d9C6d1EcF9b849A

value: 100

Calldata

Parameters

transact

transferFrom

from: 0x5B38Da6a701c568545dCfB0

to: 0x4B20993Bc481177ec7E8f571c

value: 100

Calldata

Parameters

transact

allowance

owner: 0x5B38Da6a701c568545dCfB0

spender: 0xAb843F64d9C6d1EcF9b849A

Calldata

Parameters

call

to: uint256: 10

balanceOf

account: 0xAb843F64d9C6d1EcF9b849A

Calldata

Parameters

call

to: uint256: 150

decimals

name

symbol

ERC20Token.sol

```
1 // SPDX-License-Identifier: MIT
2 pragma solidity ^0.8.0;
3
4 contract ERC20Token {
5     string public name = "MyToken";
6 }
```

0

☐ Listen on all transactions

Filter with transaction hash or address

transact to ERC20Token.approve pending ...

✓ [vm] from: 0x5B3...eddC4 to: ERC20Token.approve(address,uint256) 0xEf9...10eBf value: 0 wei data: 0x095...0000a logs: 1 hash: 0xf3c...f2e60

call to ERC20Token.allowance

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✗ [vm] from: 0xAb8...35cb2 to: ERC20Token.transferFrom(address,address,uint256) 0xEf9...10eBf value: 0 wei data: 0x23b...00664 logs: 0 hash: 0x0e3...0e53d

transact to ERC20Token.transferFrom errored: Error occurred: revert.

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call to ERC20Token.balanceOf

call [call] from: 0xAb8483F64d9C6d1EcF9b849Ae677d3315835cb2 to: ERC20Token.balanceOf(address) data: 0x70a...35cb2

transact to ERC20Token.mint pending ...

✓ [vm] from: 0xAb8...35cb2 to: ERC20Token.mint(uint256) 0xEf9...10eBf value: 0 wei data: 0x07...00664 logs: 1 hash: 0x2ab...0e2ad

call to ERC20Token.balanceOf

call [call] from: 0xAb8483F64d9C6d1EcF9b849Ae677d3315835cb2 to: ERC20Token.balanceOf(address) data: 0x70a...35cb2

transact to ERC20Token.burn pending ...

✓ [vm] from: 0xAb8...35cb2 to: ERC20Token.burn(uint256) 0xEf9...10eBf value: 0 wei data: 0x429...00032 logs: 1 hash: 0xb37...c5667

call to ERC20Token.balanceOf

call [call] from: 0xAb8483F64d9C6d1EcF9b849Ae677d3315835cb2 to: ERC20Token.balanceOf(address) data: 0x70a...35cb2

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