

remix.ethereum.org/#lang=en&optimize=false&runs=200&evmVersion=null&version=soljson-v0.8.18+commit.87161d96.js

FILE EXPLORER

WORKSPACES

Gnosis Safe - 1

contracts

scripts

deps

artifacts

prettierrc.json

Ethersol

```
1 // SPDX-License-Identifier: MIT
2 pragma solidity >=0.7.0 <0.9.0;
3
4 /*
5  | REQUIREMENTS
6  | 1. Your contract will have public variables that store the details about your coin (Token Name, Token
7  | 2. Your contract will have a mapping of addresses to balances (address => uint)
8  | 3. You will have a mint function that takes two parameters: an address and a value.
9  |   The function then increases the total supply by that number and increases the balance
10  |   of the "sender" address by that amount
11  | 4. Your contract will have a burn function, which works the opposite of the mint function, as it will
12  |   It will take an address and value just like the mint functions. It will then deduct the value from
13  |   and from the balance of the "sender".
14  | 5. Lastly, your burn function should have conditionals to make sure the balance of "sender" is greater
15  |   to the amount that is supposed to be burned.
16  */
17
18 contract MyToken {
19
20     // public variables here
21     string public tokenName = "Milind";
22     string public tokenAbbrv = "Milind";
23     uint public totalSupply = 0;
24     // mapping variable here
25     mapping(address => uint) public balances;
26     // mint function
27     function mint(address _address, uint _value) public {
28         totalSupply += _value;
29         balances[_address] += _value;
30     }
31     // burn function
32     function burn(address _address, uint _value) public {
33         if(balances[_address] >= _value){
34             totalSupply -= _value;
35             balances[_address] -= _value;
36         }
37     }
38 }
```

0 ☐ listen on all transactions Search with transaction hash or address

[call] from: 0x583806fa701c568545dcfc803fc8875f56bedd4 to: MyToken.totalSupply() data: 0x181...60ddd

creation of MyToken pending...

Debug

Activate Windows
Go to Settings to activate Windows.

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Browser tabs: (1) WhatsApp, Solidity-token-ai, Metacrafters - A..., Library | Loom, Milindkumar62/E..., Dashboard, Remix - Ethereum, +

Address bar: remix.ethereum.org/#lang=en&optimize=false&runs=200&evmVersion=null&version=soljson-v0.8.18+commit.87161d96.js

FILE EXPLORER: WORKSPACES, Gnosis Safe - 1, contracts, scripts, deps, artifacts, prettierc.json, Eth.sol

Code Editor:

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13  |   and from the balance of the "sender"
14  |
15  |   */
16 */
```

Debugger:

- listen on all transactions
- Search with transaction hash or address
- call to MyToken.tokenName
- CALL [call] from: 0x58380da6a701c568545dcfc803fc8875f56bedc4 to: MyToken.tokenName() data: 0x6c0...2a931
- call to MyToken.totalSupply
- CALL [call] from: 0x58380da6a701c568545dcfc803fc8875f56bedc4 to: MyToken.totalSupply() data: 0x181...608dd
- creation of MyToken pending...
- [vm] from: 0x583...eddC4 to: MyToken.(constructor) value: 0 wei data: 0x608...20033 logs: 0 hash: 0x2b7...6c0ce

Windows Taskbar: Type here to search, W, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, Earnings upcoming, 21:16, 13-07-2023, ENG