Exercise 03

Creation of a Truffle Project

```
npm init
npm i @openzeppelin/contracts
npm i truffle
npx truffle init
```

Contract & Migration

Token

```solidity
// SPDX-License-Identifier:  AFL-3.0
pragma solidity ^0.8.0;

import "@openzeppelin/contracts/token/ERC20/ERC20.sol";
import "@openzeppelin/contracts/utils/math/SafeMath.sol";



contract Floken is ERC20 {
    using SafeMath for uint256;
    uint public INITIAL_SUPPLY = 12000;

    constructor () ERC20("Floken", "Flo") {
        _mint( msg.sender, INITIAL_SUPPLY );
    }

    function decimals() pure public override returns (uint8) {
        return 2;
    }
}
```

`truffle-config.js`

```javascript
module.exports = {
    networks : {
        development : {
            host : "127.0.0.1",
            port : 7545,
            network_id : "*" // Match any network id
        }
    },
    compilers: {
```

```
        solc: {
            version: "0.8.19",
        }
    }
};
```

Running on a Local Chain

Ganache

ACCOUNTS   BLOCKS   TRANSACTIONS   CONTRACTS   EVENTS   LOGS

SEARCH FOR BLOCK NUMBERS OR TX HASHES

CURRENT BLOCK	GAS PRICE	GAS LIMIT	HARDFORK	NETWORK ID	RPC SERVER	MINING STATUS			
6	20000000000	6721975	MERGE	5777	HTTP://127.0.0.1:7545	AUTOMINING	WORKSPACE QUICKSTART	SAVE	SWITCH

03f3565b50505b505050565b600082821c905092915050565b6000620004a6000019846008026200046a565b19808316915050929150505b6000620004a4583836200047565b915082600202821790509291505050565b620004c082620002d3b565b67fffffffffffffff8111156200
04dc57620004db6200024656565b5b62000e8825462004a565b62000e4f58282856200041a565b6000060209050601f831160018114620000521d5760008415620000518578282870151910050505b620005245858262000447565b865655506200094565601f198416620000533d86620002d9565b60
005b821101562000065758490015182355000182019150060208501914506200810190506200405050b6868310155620005875780490151620005b6601602880201885505050505050505050565b60006020520682002019050929150505b7f
45524332303a206d696c20e7420746f72074686520f26d5a65726f206164677246373657330096000820152505250565b60006020152250565b6000620005e5601f8362000590c565b9150150620005b60208200582d5620004825650502001905091905056
5b7f4e487b71000000000000000000000000000000000000000000005260116004526024600fd5b6000620005b826200036165b59202502b620019050808021115629200083566000000000000
620003615652505050565b6000602082019050600206b160008301846206068957b59215050565b611 25e6000 c7600039000f3fe60806040523480156100157600080fd5b506004361061001045760003560e01c8063395093511161007157806339509351114610191578063
70a08231114610171578306395d89ba0114610 f1578063a457c2d71461020 f578063a9059cbb11461023f578063dd6 2ed3e14610 26f576100b4565b806306fdde0314 100b9578063 09 5ea7b3146100 d75780631816d d1461001057578063 23b8 72dd1461 0125576 32ff2e9 0c14610155
578063313ce5671461017357 5 b600080fd5b610c 1610 2 0f565b6 40516100ce919061 0bb3565b6040516109 10b3 b565b604051618 0905604516100c3456100 a6100fd5b600080fd5b600080fd5b61
610c7b565b6 0451801910390f35b61013f60048036038101906 1013a919061 0c 9c565b601035e565b604051610 14c919061 0c56 5b60405 180910390f35b6 10c7b565b604051801910390f35b610c1017b610391035565b604051610 1088919061001 0a0556
5b60 0451801630910390f3 5b6 10 1a b3b565b6 0 4518180190 3 9f35b6 1022960048360381101906110a 6919061 0 c5655b60 40 516 10104 c919061 0 c5565b604051801910390f35b6 10 6101 b8919 0 1001d b6565b6 004 518 0 1 910 390f35b 610c1f961041b
565b6 0 45161 0 2061 9061 0 10 b035565b60 40 5180910390f35b 610d4d565b60 4051 6 1 05471 5c 7565b6 0 40516102 691 9 0 610 6 7c565b6 0 405180 91 0 390f35b 60906 00038 0 5461 0 2 910 06 0918 0 910 1 06 04d 28 b29 1 90 5 08 1 81526 0 01 88 2 0 5 46 102 d a90610d
bc565b8001561 03 2 7 5 780601f1 0610 2 f c5 76 101 00808 03 5404 02 835 2 9 1602 00 19 1610 327 56 5b8 20 19 1 900 00 522 02 600 00 200 905 b815 81 52 9066 001 01 9 06 020 01 8 8 8 3 1 16 103 0 a5782 9 0 0 360 1 f 168 2 01 9 15b5 0 505 0 5 0 5 0 9 0 5 0 9 0 5 65 6 0 00 8 35 c1 05 c e5 65b9 05 061 0 3 4 3 4 8 58 56 1 03 d6
565b60019150509291505055 5b 6 0 00 6 00 2 54 9 05090565b60 0 008061 0 3696 1 0 5 c e 565 b90 5061 0 376858 2 8 56 10 79 f 565b6 1 038 1 8 58 5 856 1 0 8 2b 565 b6 0 0 1 9 1 5 0 5 0 9 3 9 2 5 0 5 0 5 0 5 6 5 b6 0 0 5 5 48 1 565 b60 0 00 60 0 29 0 5 0 9 0 5 65b6 0 0 0 8 0 8 6 1 0 3a 7 6 1 0 5c e 5 6 5 b9 0 5 0 6 1 0 3c 8 8 1 8 5 8 5 6 1 0 3 b9 85 89 6 1 05 47
565b610c39199610e1c565b6105d6565b60019150929150505b5b6000080600083373fffffffffffffffffffffffffffffffffffffff1673ffffffffffffffffffffffffffffffffffffffff168152620019081526020016000205490509291505050
bc565b8 0 6 0 1f01 6 0 2080 910 402 6 020 0 1 6 0 4 051 9 0 8 1 0 1 0 1 0 4 0 5 28 0 9 2 9 1 9 0 8 18 15 26 0 2 0 0 1 8 8 2 0 1 05 2 6 0 20 0 1 8 2 8 0 5 4 6 1 0 2 a 9 0 6 1 0 d
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f f f f f f f f f f f 1 6 8 3 7 3 f f f f f f f f f f f f f f f f f f f f f f f f f f f f f f f f f f f f f f f f f f f f f f f f f f f f f f 1 6 0 3 6 1 0 6 4 5 5 7 6 0 4 0 5 1 7 f 0 8 c 3 7 9 a 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 8 1 5 2 6 0 0 4 0 1 6 1 0 6 3 c 9 0 6 1 0 f 5 4 5 6 5 b 6 0 4 0 5 1 8 0 9 1 0 3 9 0 f d 5 b 6 0 0 0 7 3 f f f f f f f f f f f f f f f f f f f f f f f
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6 1 0 b 3 0 8 1 6 1 0 a f 1 5 6 5 b 6 0 4 0 1 9 1 5 0 5 0 9 2 9 1 5 0 5 0 5 6 5 b 6 0 0 0 6 0 2 0 8 2 0 1 9 0 5 0 8 1 8 1 0 3 6 0 0 0 8 3 0 1 5 2 6 1 0 b 5 5 8 1 8 4 6 1 0 0 2 5 6 5 b 9 0 5 0 9 2 9 1 5 0 5 0 5 6 5 b 6 0 0 0 8 0 f d 5 b 6 0 0 0 7 3 f f f f f f f f f f f f f f f f f f f f f f f f f f f f f f f f f f f f f f f 1 6 8 2 1 6 9 0 5 0 9 1 9 0 5 0 5 6 5 b 6 0 0 0 6 1 0 b d 8 d 2 6 1 0 b c 2 6 5 6 5 b 9 0 5 0 9 1 9 0 5 0 5 6 5 b 6 0 1 b 9 0
8 1 6 1 0 b 8 2 5 6 5 b 8 1 1 4 6 1 0 b a b 5 7 6 0 0 0 8 0 f d 5 b 5 0 5 0 5 6 5 b 6 0 0 0 8 1 3 5 9 0 5 0 6 1 0 b b a 8 1 6 1 0 b 9 4 5 6 5 b 9 2 9 1 5 0 5 0 5 6 5 b 6 0 0 0 1 9 0 5 0 9 1 9 0 5 0 5 6 5 b 6 0 0 8 1 1 3 5 9 0 5 0 6 1 0 b 8 1 6 1 0 b c a 5 6 5 b 9 2 9 1 5 0 5 0 5 6 5 b 6 0 0 0 8 6 0 4 0 8 3 8 5 0 3 1 2 1 5 6 1 0 c 0 c 5 6 5 b
6 1 0 b 5 d 5 6 5 b 6 0 0 0 6 1 0 c 1 b 8 5 8 2 8 6 0 1 6 1 0 b a b 5 6 5 b 9 2 5 0 5 0 6 0 2 0 1 0 c 2 c 8 5 8 2 8 6 0 1 6 1 0 b e 1 5 6 5 b 9 1 5 0 5 0 9 2 5 0 9 2 9 0 5 0 5 6 5 b 6 0 0 0 8 1 1 5 1 5 9 0 5 0 9 1 9 0 5 0 5 6 5 b 6 1 0 c 4 b 8 1 6 1 0 c 3 6 5 6 5 b 8 2 5 2 5 0 5 6 5 b 6 0 0 0 6 0 2 0 8 2 0 1 9 0 5 0 6 1 0 c 6 6 6 0 0 0 8 3 0 1 8 4 6 1 0 c 4 2 5 6 5 b 9 2 9 1 5 0 5 0 5 6 5 b 6 0 1 0 c 7 5 8 1 6 1 0 c 6 5 6 5 b 6 0 0 0 6 2
5 0 5 0 5 6 5 b 6 0 0 0 6 0 2 0 8 2 0 1 9 0 5 0 6 1 0 c 9 0 6 0 0 0 8 3 0 1 8 4 6 1 0 c 4 6 5 6 5 b 6 0 0 0 6 0 0 6 0 0 0 6 0 0 8 4 6 0 0 3 1 2 1 5 6 1 0 c a f 5 7 6 1 0 c a e 6 1 0 b 5 d 5 6 5 b 5 b 6 0 0 0 6 1 0 c b d 8 6 8 2 8 7 0 1 6 1 0 b a b 5 6 5 b 9 3 5 0 5 0 6 0 2 0 1 0 c c e 8 6 8 2 8 7 0 1 6 1 0 b a b 5 6 5 b 9 2 5 0 5 0 4 0 6 1 0 c d f 8 6 8 2 8 7 0 1 6 1 0 e 1 5 6 5 b 9 1 5 0 5 0 9 2 5 0 9 2 5 0 9 2
5 6 5 b 6 0 0 0 6 0 2 0 8 2 0 1 9 0 5 0 6 1 0 9 0 6 0 0 0 8 3 0 1 8 4 6 1 0 c f 8 1 6 1 0 c e 5 6 5 b 6 2 5 2 5 0 5 6 5 b 6 0 0 0 6 0 2 0 8 2 0 1 9 0 5 0 6 1 0 e 0 3 8 2 8 0 1 9 0 a 6 0 0 0 8 3 0 1 8 4 6 1 0 c 5 6 5 b 9 3 5 0 5 0 6 0 2 0 1 0 c c e 8 6 8 2 8 7 0 1 6 1 0 b a b 5 6 5 b 9 1 5 0 5 0 9 2 5 0 9 2 5 0 9 2 5 0 9 2
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1 6 8 0 e 1 0 d d 4 5 7 6 0 7 f 8 2 1 6 9 1 5 0 5 b 6 0 0 2 0 8 2 1 0 8 1 0 3 6 1 0 d e 7 5 7 6 1 0 d e 6 6 1 0 d 8 d 5 6 5 b 5 b 5 0 9 1 9 0 5 0 5 6 5 b 7 f 4 e 4 8 7 b 7 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 5 2 6 0 1 1 6 0 0 4 5 2 6 0 2 4 6 0 0 0 f d 5 b 6 0 0 0 6 1 0 e 2 7 8 2 6 1 0 b c 0 5 6 5 b 9 1 5 0 6 1 0 e 3 2 8 3 6 1 0 b 5 d 5 6 5 b 9 2 5 0 8 2 8 2 0 1
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f e a 2 6 4 6 9 7 0 6 6 7 3 5 8 2 2 1 2 2 0 7 6 b 2 7 2 2 f 4 d 3 b 0 3 2 3 b b e b 7 b 3 d 2 c 2 3 8 3 6 7 f b 2 0 e 0 d 6 b 9 0 7 1 8 f 8 d 7 b 3 2 9 8 7 c 1 0 0 a 0 e d 6 4 7 3 6 f 6 c 6 3 4 3 0 0 0 8 1 3 0 0 3 3

EVENTS

EVENT NAME			
Encoded Event			

CONTRACT	TX HASH	LOG INDEX	BLOCK TIME
Floken	0×3a0338aa4657b5e58a18b72ce73af6be33c6bebc51a79f356a6f122b1aa70729	0	2023-05-10 15:40:48

Ganache

e03   /home/florian/projects/fh/mc/semester2/bc/e03

NAME	ADDRESS	TX COUNT	
Context	Not Deployed	0	
ERC20	Not Deployed	0	
Floken	0×10764E49f92a9987dE5867E3073E4e73955eC3C2	0	DEPLOYED
IERC20	Not Deployed	0	
IERC20Metadata	Not Deployed	0	
SafeMath	Not Deployed	0	