Homework 5 Nadine Chancay

Badger coin contract

Create an BEP20 contract with the following details :

Name : "BadgerCoin"

Symbol : "BC"

Decimals : 18

Initial supply : 1000000 tokens

Deploy this to a test network and exchange some with your colleagues.

You may inherit from Open Zeppelin contracts.

```
// SPDX-License-Identifier: MIT
pragma solidity ^0.8.9;

import "@openzeppelin/contracts@4.8.2/token/ERC20/ERC20.sol";
import "@openzeppelin/contracts@4.8.2/access/Ownable.sol";

contract BadgerCoin is ERC20, Ownable {
    constructor() ERC20("BadgerCoin", "BC") {
        _mint(msg.sender,  1000000 * 10 ** decimals());
    }
}
```

Verification

Take one of the contracts you created in the previous homework and deploy it to BSC test net.

Implementación de contrato ✕

Estado

Ver en el explorador de bloques

Confirmado

Copiar id. de transacción

De		**Para**
0x168...FC6d	→	Contrato nuevo

Transacción

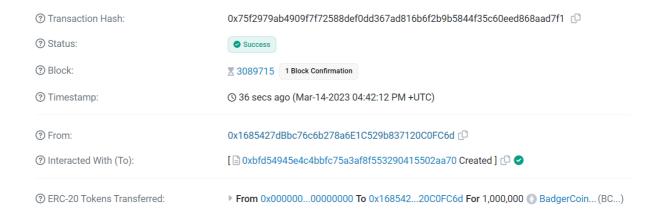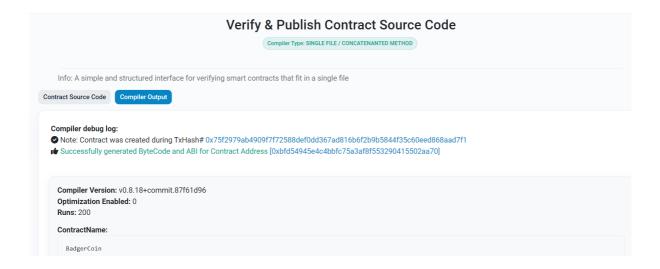|	
Mientras tanto	0
Importe	**-0 SepoliaETH**
Límite De Gas (Unidades)	1409409
Gas Usado (Unidades)	1409409
Tarifa base (GWEI)	0.000000007
Tarifa de prioridad (GWEI)	2.5
Tarifa total de gas	0.003524 SepoliaETH
Tarifa máxima por gas	0.000000003 SepoliaETH
Total	**0.00352352 SepoliaETH**

Find your deployed contract on the block explorer

⑦ Transaction Hash:	0x75f2979ab4909f7f72588def0dd367ad816b6f2b9b5844f35c60eed868aad7f1 ⧉	
⑦ Status:	✅ Success	
⑦ Block:	⧗ 3089715　1 Block Confirmation	
⑦ Timestamp:	🕐 36 secs ago (Mar-14-2023 04:42:12 PM +UTC)	
⑦ From:	0x1685427dBbc76c6b278a6E1C529b837120C0FC6d ⧉	
⑦ Interacted With (To):	[📄 0xbfd54945e4c4bbfc75a3af8f553290415502aa70 Created] ⧉ ✅	
⑦ ERC-20 Tokens Transferred:	▸ From 0x000000...00000000 To 0x168542...20C0FC6d For 1,000,000 ⊙ BadgerCoin... (BC...)	

Verify your contract, using verify and publish

Verify & Publish Contract Source Code

Compiler Type: SINGLE FILE / CONCATENANTED METHOD

Info: A simple and structured interface for verifying smart contracts that fit in a single file

Contract Source Code　**Compiler Output**

Compiler debug log:
✅ Note: Contract was created during TxHash# 0x75f2979ab4909f7f72588def0dd367ad816b6f2b9b5844f35c60eed868aad7f1
👍 Successfully generated ByteCode and ABI for Contract Address [0xbfd54945e4c4bbfc75a3af8f553290415502aa70]

Compiler Version: v0.8.18+commit.87f61d96
Optimization Enabled: 0
Runs: 200

ContractName:

```
BadgerCoin
```

Interact with your contract using the 'Read Contract' and 'Write Contract' tabs.

Read Contract

Write Contract