

Blockchain Programming

TD5

- Créer un repo github et le partager avec le prof

OK

- Install Truffle & Create a truffle project

OK

- Create an ERC20 token contract

See files : SuperCoin.sol

- Implement all ERC20 functions

See files : SuperCoin.sol

- Create a migration to deploy your contract

```
C:\Users\Dieu\Desktop\Blockchain Programming\blockchain_programming_esilv2020_td5\SuperCoin>truffle migrate ganache

Compiling your contracts...
=====
> Compiling .\contracts\Migrations.sol
> Artifacts written to C:\Users\Dieu\Desktop\Blockchain Programming\blockchain_programming_esilv2020_td5\SuperCoin\build\contracts
> Compiled successfully using:
   - solc: 0.5.16+commit.9c3226ce.Emscripten.clang

Starting migrations...
=====
> Network name:    'ganache'
> Network id:     5777
> Block gas limit: 0x6691b7

1_initial_migration.js
=====
Replacing 'Migrations'
-----
> transaction hash: 0x098a782ccd2fb0f8a69e9ec74fe3665650c4517b45d132ade4523eec98f8faef
> Blocks: 0        Seconds: 0
> contract address: 0x6709ee10633c1a0A7C1eECb3c0d55FF4A79Cdcd
> block number:    1
> block timestamp: 1583359069
> account:         0x7d59A382291dB29118A31cdc4699872B521d3948
> balance:         99.99623034
> gas used:        188483
> gas price:       20 gwei
> value sent:      0 ETH
> total cost:      0.00376966 ETH

> Saving migration to chain.
> Saving artifacts
-----
> Total cost:      0.00376966 ETH

Summary
=====
> Total deployments: 1
> Final cost:       0.00376966 ETH
```

BLOCK 2	MINED ON 2020-03-04 22:57:49	GAS USED 42001	1 TRANSACTION
BLOCK 1	MINED ON 2020-03-04 22:57:49	GAS USED 188483	1 TRANSACTION
BLOCK 0	MINED ON 2020-03-04 22:27:41	GAS USED 0	NO TRANSACTIONS

- **Implement customer white listing**

See files : WhiteList.sol