REPUBLIQUE DE CÔTE D'IVOIRE

UNION – DISCIPLINE – TRAVAIL

Ministère de l'Enseignement Supérieur et de la Recherche Scientifique (MESRS)

RAPPORT DE TRAVAUX PRATIQUES

REMIX – ETHEREUM IDE

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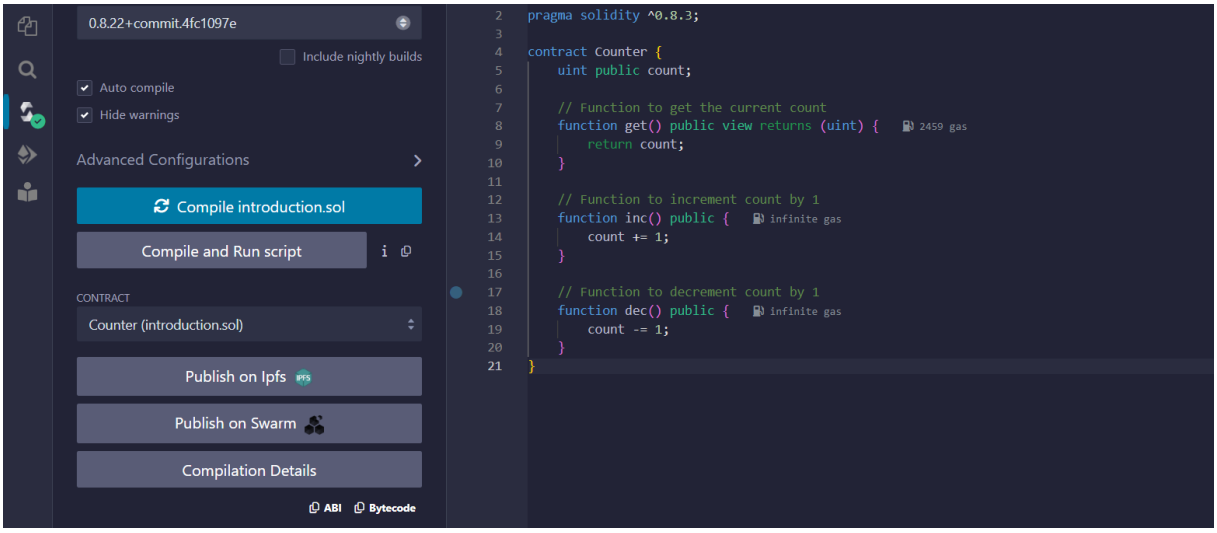
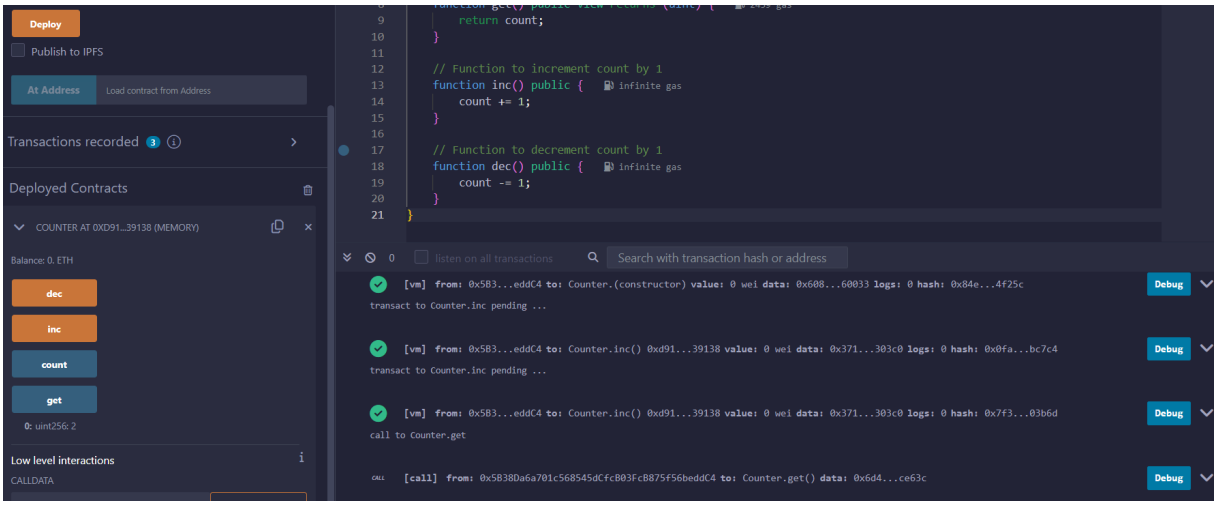
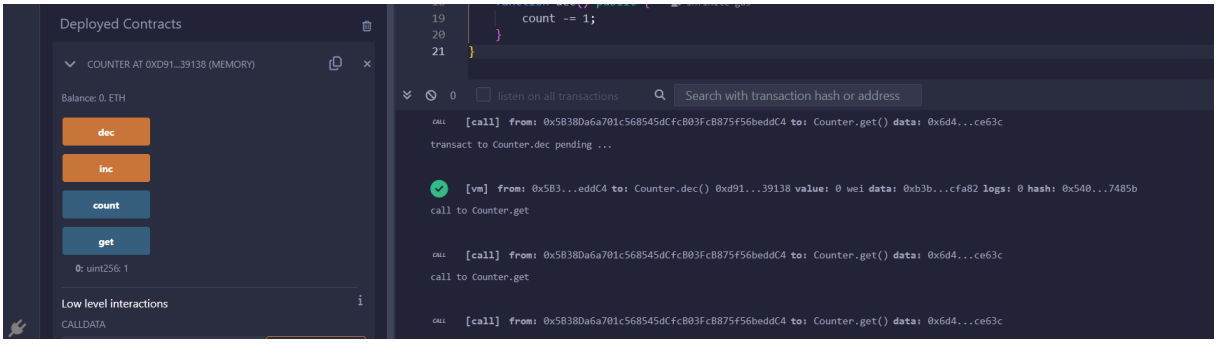
I. SOMMAIRE

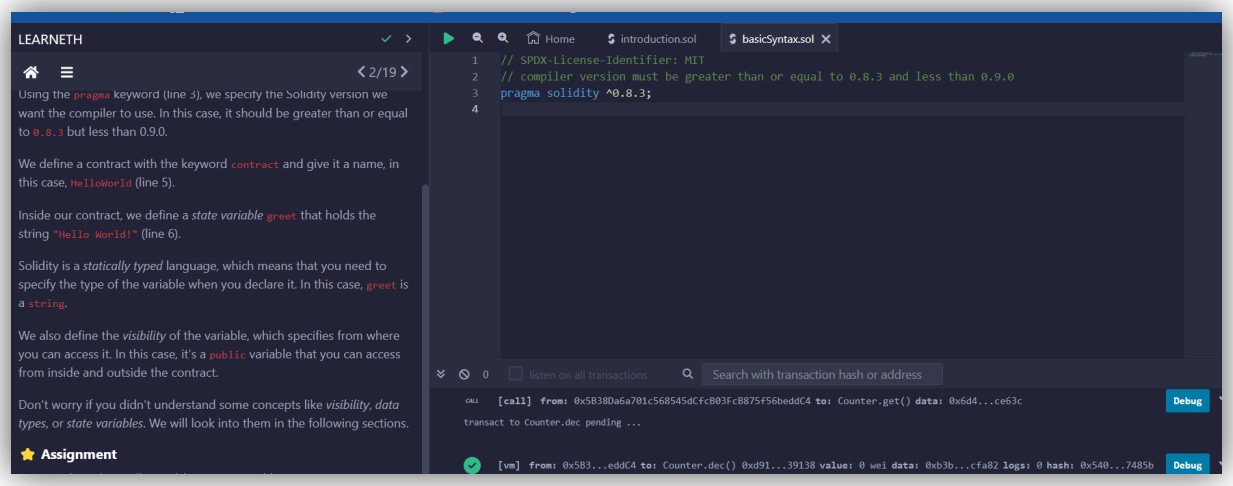
II. INTRODUCTION

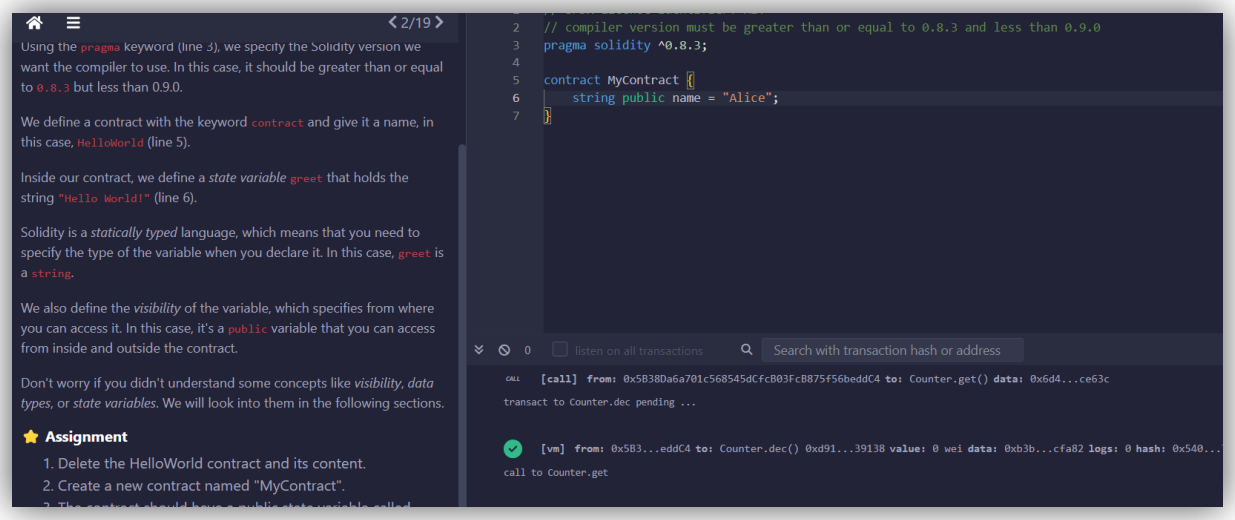






III. BASIC SYNTAX





IV. PRIMITIVE DATA TYPES

```
    Like uint, different ranges are available from int8 to int256
    */
    int8 public i8 = -1;
    int public i256 = 456;
    int public i = -123; // int is same as int256

    address public addr = 0xCA35b7d915458EF540aDe6068dFe2F44E8fa733c;
    address public newAddr = 0x742d35Cc6634C0532925a3b844Bc454e4438f44e;

```

```
int8 public i8 = -1;
int public neg = -4;
int public i256 = 456;
int public i = -123; // int is same as int256
```

```
uint8 public newU = 0; // the smallest
```

V. VARIABLES

```
contract Variables {
    // State variables are stored on the blockchain.
    string public text = "Hello";
    uint public num = 123;

    uint public blockNumber;
```

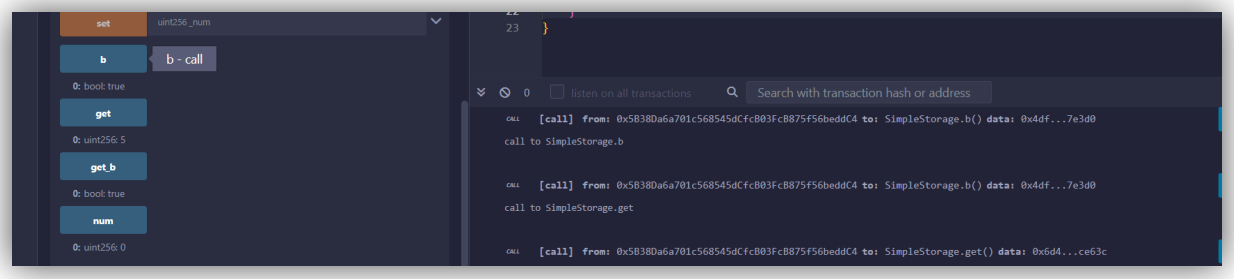
```
function doSomething() public {    22338 gas
    // Local variables are not saved to the blockchain.
    uint i = 456;

    // Here are some global variables
    uint timestamp = block.timestamp; // Current block timestamp
    address sender = msg.sender; // address of the caller

    blockNumber = block.number; // the assignement!!!
}
```

VI. FUNCTIONS

1. Reading and Writing to a State Variable

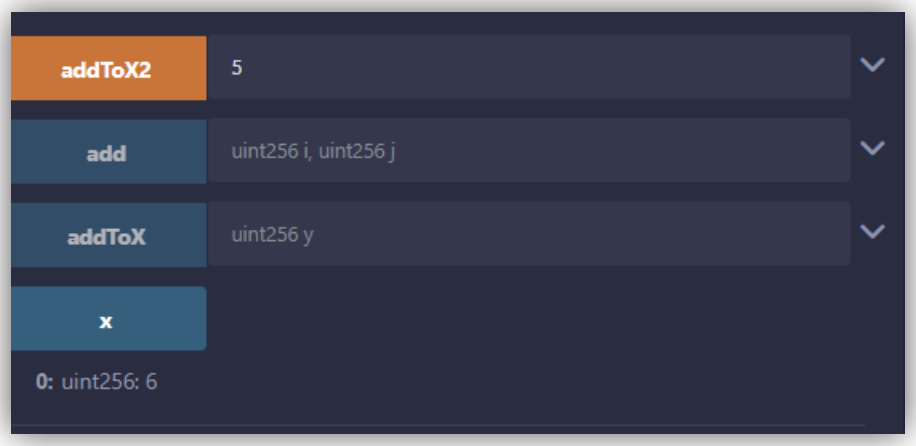
```
contract SimpleStorage {
    // State variable to store a number
    uint public num;

    bool public b = true;
```

```
    function get_b() public view returns (bool) {    2545 gas
        return b;
    }
}
```



2. View and Pure

```
    function addToX2(uint y) public {    infinite gas
        x = x + y;
    }
}
```


addToX2
5
add
uint256 i, uint256 j
addToX
uint256 y
x
0: uint256: 6