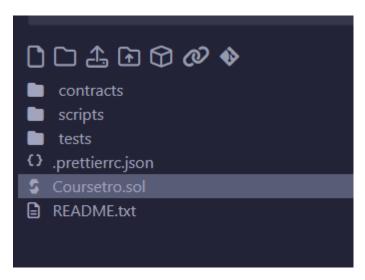
Name: Priyanka, Stu-id: 20179

Ethereum Lab 2

Ethereum Smart Contracts Variable and Types

- 1. Go to http://remix.ethereum.org
- 2. create a new le named Coursetro.sol



❖ Content

```
// SPDX-License-Identifier: MIT
pragma solidity ^0.8.0;
contract Coursetro {
 // Your contract code will go here
 string fName;
 uint age;
 // Constructor to initialize default values
 constructor(){
   fName = "Gray";
   age = 30;
 }
 // Function to set instructor details
 function setInstructor(string memory _fName, uint _age) public {
   fName = _fName;
   age = _age;
 }
 // Function to get instructor details
 function getInstructor() public view returns (string memory, uint) {
   return (fName, age);
```

```
}
}
```

3. write some code in this file

```
Coursetro.sol X README.txt

// SPDX-License-Identifier: MIT

pragma solidity ^0.8.0;

contr

contract Coursetro is Coursetro

constructor() infinite gas 3334400 gas

fName = "Gray";

age = 30;

// Function to set instructor details

function setInstructor(string memory _fName, uint _age) public {
    fName = _GName;
    age = _age;
}

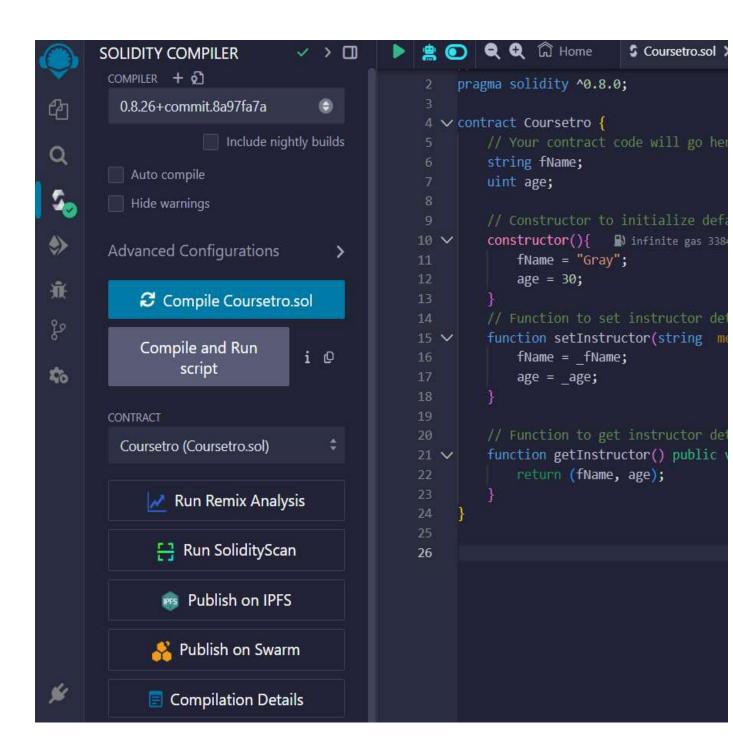
// Function to get instructor details

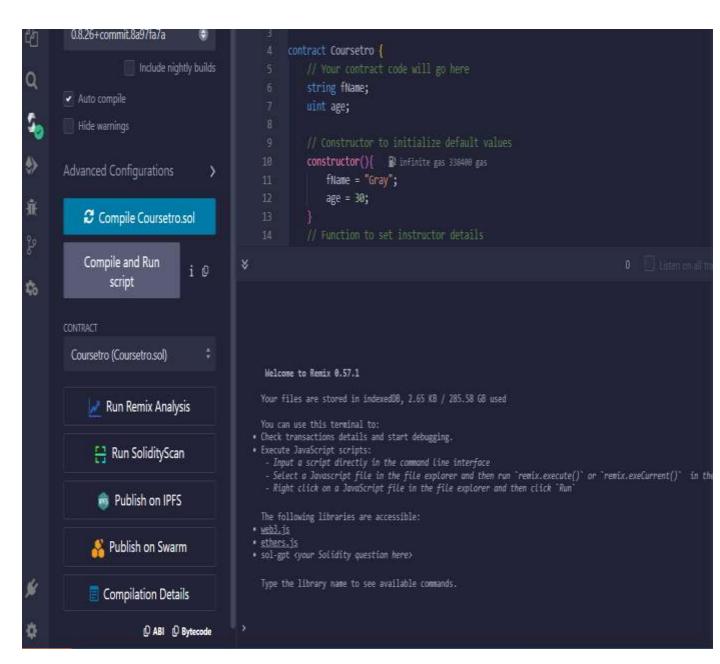
function getInstructor() public view returns (string memory, uint) {
    infinite gas
    return (fName, age);
}

// Function to get instructor details

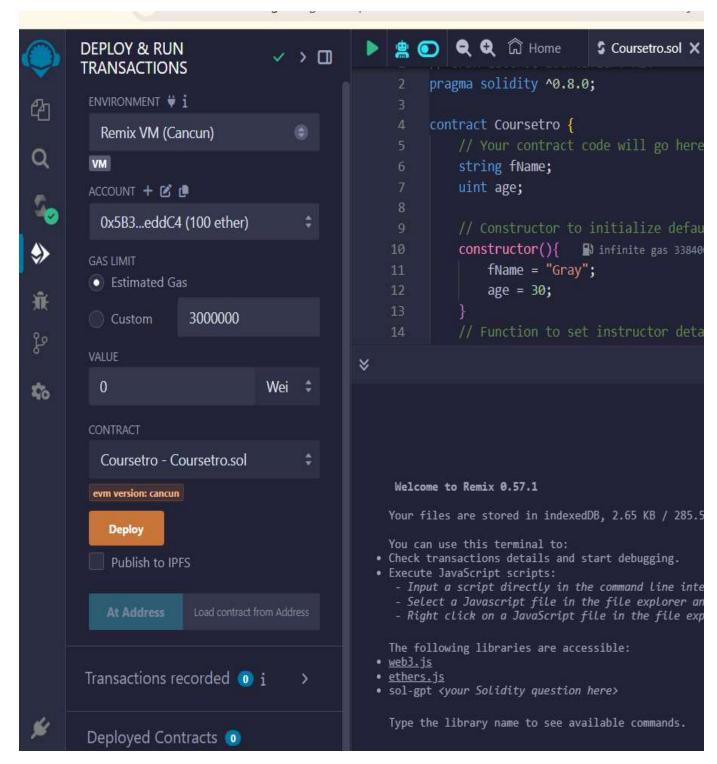
function getInstructor() public view returns (string memory, uint) {
    infinite gas
    return (fName, age);
}
```

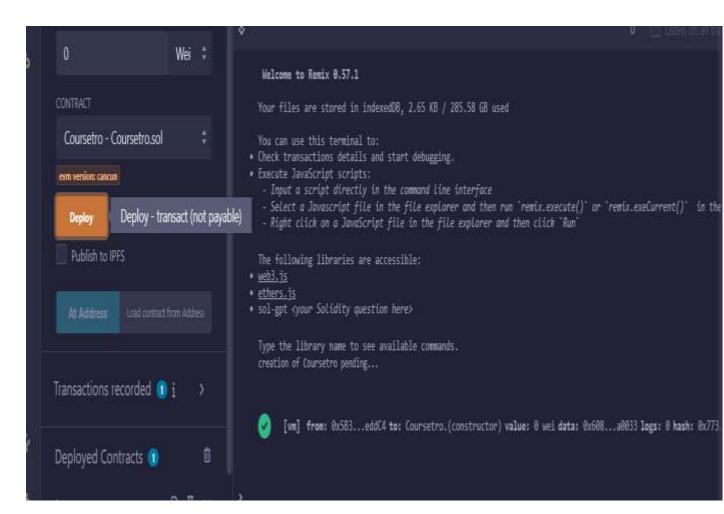
4. compile the contract and click auto compile, make sure there is no error or warning





5. deploy the contract, you can a new record on the Deployed Contracts section and the message on the console

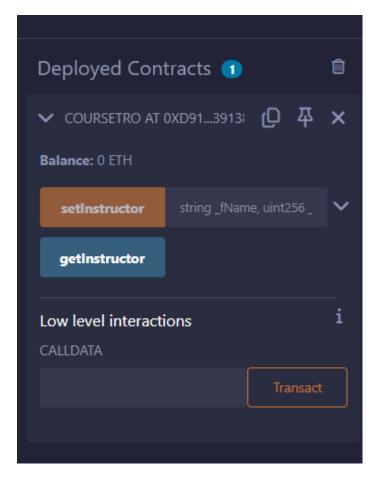




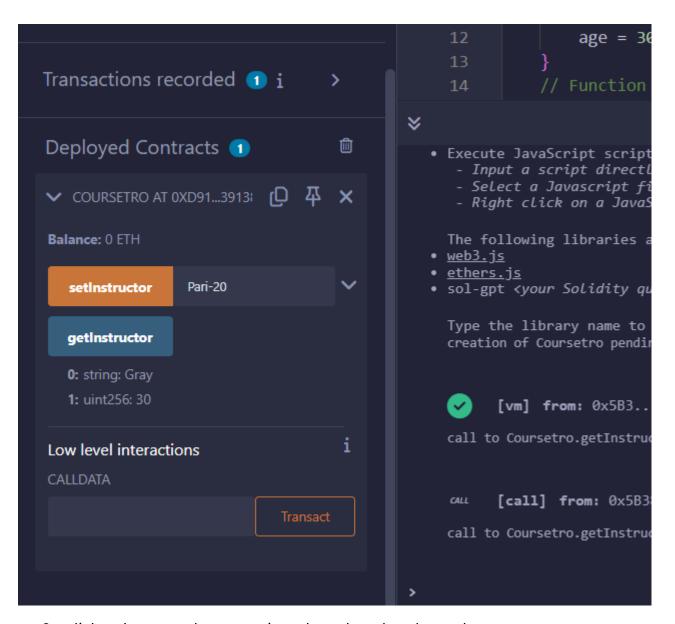
7.)Test the Contract

- expand the contract record
- click getInstructor button and get the initial value from constructor

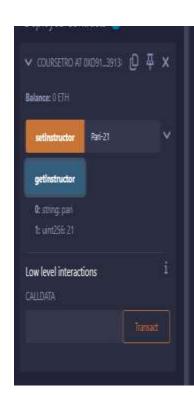




8. enter value and click setInstructor button to set



9. click getInstructor button again and see the value changed



call to Coursetro.getInstructor

- ou [call] from: 0x58380a6a70ic568545dCfcB03FcB875f56beddC4 to: Coursetro.getInstructor() data: 0x3c1...b8ia5 call to Coursetro.getInstructor
- ou. [call] from: 8x5838Da6a701c568545dCfc883Fc8875f56beddC4 to: Coursetro.getInstructor() data: 0x3c1...b81a5 transact to Coursetro.setInstructor pending ...
- [vm] from: 0x583...eddC4 to: Coursetro.setInstructor(string,uint256) 0xd91...39138 value: 0 wei data: 0x22f.
 call to Coursetro.getInstructor
- uu [call] from: %x5838Da6a701c568545dCfc803Fc8875f56beddC4 to: Coursetro.getInstructor() data: %x3c1...b8la5

