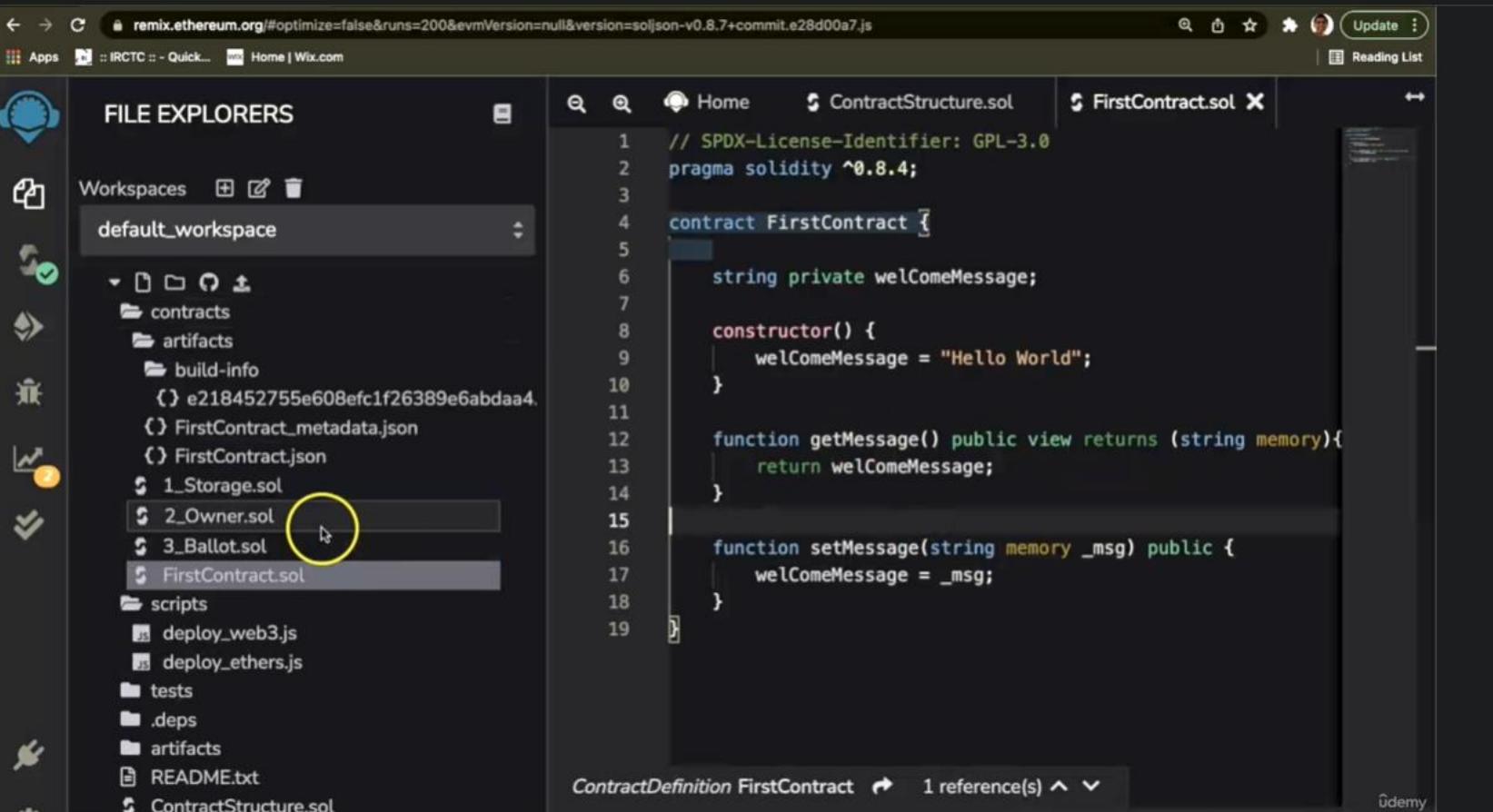


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Course content

- 6. Hello World With Solidity
● 4min
 - 7. Structure of Smart Contract
● 2min
 - 8. View Keyword
● 1min
 - 9. Pure Keyword
● 2min
 - 10. Memory vs Storage first glance
● 1min
 - 11. Function Visibility - Private, Internal, External, Public
● 3min
 - 12. State Visibility - Private, Internal, External, Public
● 2min
 - 13. Basic Data Types
● 7min
 - 14. Structures
● 7min
 - 15. Arrays
● 5min
 - 16. Mapping
● 3min
 - 17. Enums
● 3min
 - 18. Events
● 3min
 - 19. Require, Revert, Assert
● 5min

Student feedback

4.9



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- 8. View Keyword
- 9. Pure Keyword
- 10. Memory vs Storage first glance
- 11. Function Visibility - Private, Internal, External, Public
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- 13. Basic Data Types
- 14. Structures
- 15. Arrays
- 16. Mapping
- 17. Enums
- 18. Events
- 19. Require, Revert, Assert
- 20. Global Variables

Student feedback

4.9

14°C Haze

Search

08:36 22-11-2022

```
// SPDX-License-Identifier: GPL-3.0
pragma solidity ^0.8.4;

contract ContractStructure {
    string private welcomeMsg;

    constructor() {
        welcomeMsg = "Hello World";
    }

    function getWelcomeMessage() public view returns (string memory) {
        return welcomeMsg;
    }

    function setMessage(string memory _msg) public {
        welcomeMsg = _msg;
    }
}
```

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https://www.udemy.com/course/learn-solidity-in-2-hours/learn/lecture/31770602#reviews

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- 8. View Keyword
- 9. Pure Keyword
- 10. Memory vs Storage first glance
- 11. Function Visibility - Private, Internal, External, Public
- 12. State Visibility - Private, Internal, External, Public
- 13. Basic Data Types
- 14. Structures
- 15. Arrays
- 16. Mapping
- 17. Enums
- 18. Events
- 19. Require, Revert, Assert
- 20. Global Variables

15°C Polluted air

4.9 ★★★★★ 71% ★★★★☆ 25% ★★★☆☆ 0%

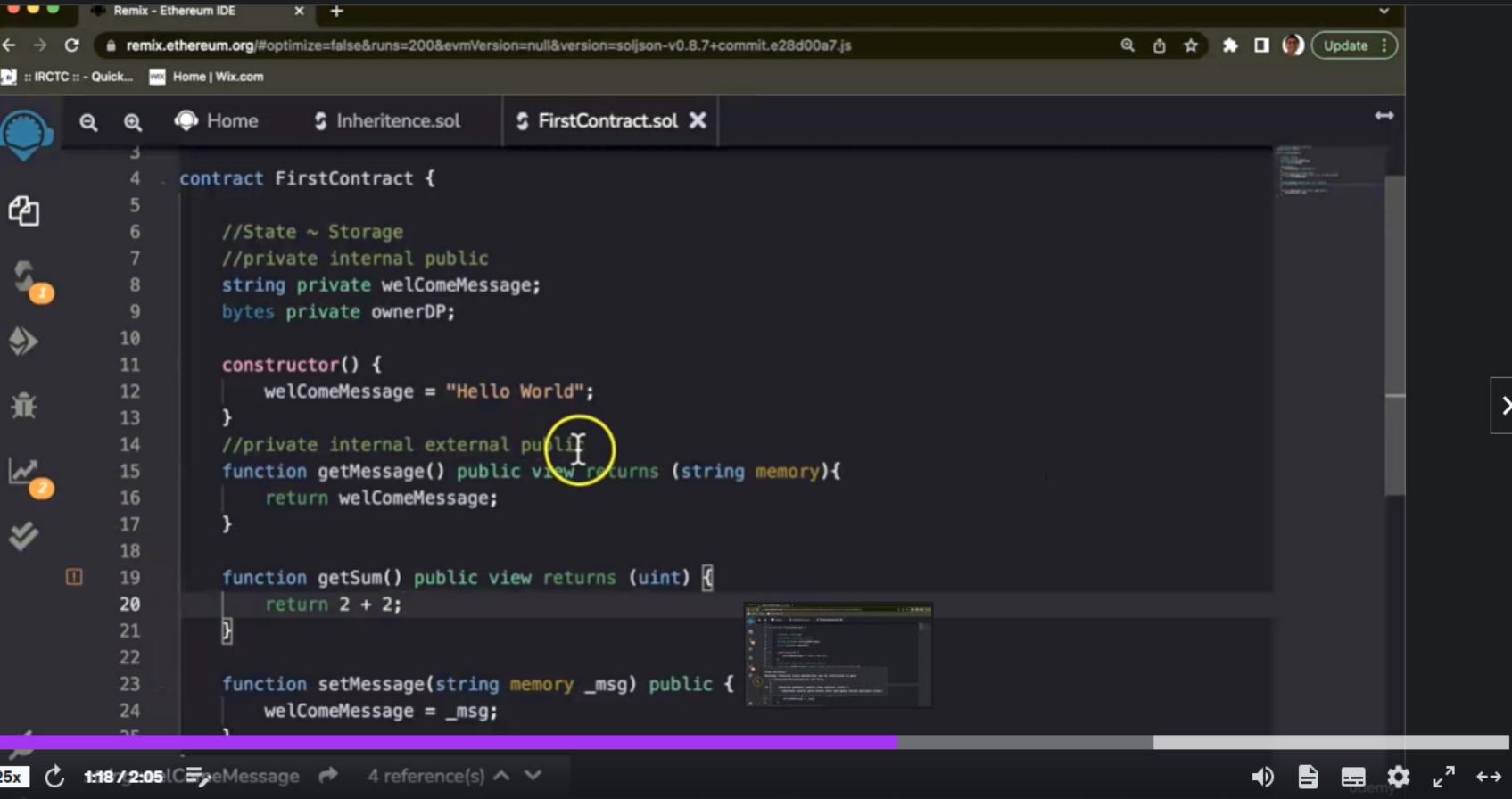
Search

08:38 22-11-2022

1

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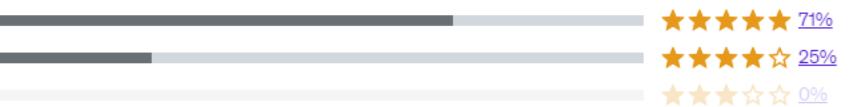


Course content

- 9. Pure Keyword
⌚ 2min
 - 10. Memory vs Storage first glance
⌚ 1min
 - 11. Function Visibility - Private, Internal, External, Public
⌚ 3min
 - 12. State Visibility - Private, Internal, External, Public
⌚ 2min
 - 13. Basic Data Types
⌚ 7min
 - 14. Structures
⌚ 7min
 - 15. Arrays
⌚ 5min
 - 16. Mapping
⌚ 3min
 - 17. Enums
⌚ 3min
 - 18. Events
⌚ 3min
 - 19. Require, Revert, Assert
⌚ 5min
 - 20. Global Variables
⌚ 7min
 - 21. OOPS Containment
⌚ 7min
 - 22. Constructors Revisited
⌚ 2min

Student feedback

4.9



Remix - Ethereum IDE

remix.ethereum.org/#optimize=false&runs=200&evmVersion=null&version=soljson-v0.8.7+commit.e28d00a7.js

IRCTC :: - Quick... Home | Wix.com

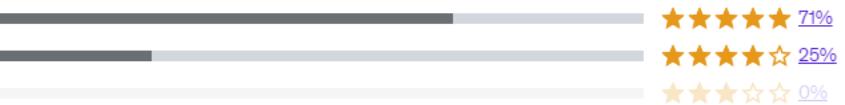
Home Inheritance.sol FirstContract.sol

```
3
4 contract FirstContract {
5
6     //State ~ Storage
7     //private internal public
8     string private welComeMessage;
9     bytes private ownerDP;
10
11    constructor() {
12        welComeMessage = "Hello World";
13    }
14    //private internal external public
15    function getMessage() public view returns (string memory) {
16
17        from solidity:
18        Warning: Function state mutability can be restricted to pure
19        --> contracts/FirstContract.sol:19:5:
20        |
21        function getSum() public view returns (uint) {
22            ^ (Relevant source part starts here and spans across multiple lines).
23
24            welComeMessage = _msg;
25        }
```

string welComeMessage ↗ 4 reference(s) ^ ▾

Student feedback

4.9



Course content

- 9. Pure Keyword
2min
 - 10. Memory vs Storage first glance
1min
 - 11. Function Visibility - Private, Internal, External, Public
3min
 - 12. State Visibility - Private, Internal, External, Public
2min
 - 13. Basic Data Types
7min
 - 14. Structures
7min
 - 15. Arrays
5min
 - 16. Mapping
3min
 - 17. Enums
3min
 - 18. Events
3min
 - 19. Require, Revert, Assert
5min
 - 20. Global Variables
7min
 - 21. OOPS Containment
7min
 - 22. Constructors Revisited
2min

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- 10. Memory vs Storage first glance
- 11. Function Visibility - Private, Internal, External, Public
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- 13. Basic Data Types
- 14. Structures
- 15. Arrays
- 16. Mapping
- 17. Enums
- 18. Events
- 19. Require, Revert, Assert
- 20. Global Variables
- 21. OOPS Containment
- 22. Constructors Revisited
- 23. OOPS Inheritance

10. Memory vs Storage first glance

11. Function Visibility - Private, Internal, External, Public

12. State Visibility - Private, Internal, External, Public

13. Basic Data Types

14. Structures

15. Arrays

16. Mapping

17. Enums

18. Events

19. Require, Revert, Assert

20. Global Variables

21. OOPS Containment

22. Constructors Revisited

23. OOPS Inheritance

Student feedback

4.9

5 stars: 71% (Yellow)

4 stars: 25% (Orange)

3 stars: 0% (Grey)

15°C Smoke

ENG IN

08:44 22-11-2022

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Remix - Ethereum IDE

commit.e28d00a7.js

```
// SPDX-License-Identifier: GPL-3.0
pragma solidity ^0.8.4;

contract FirstContract {

    //State ~ Storage
    string private welComeMessage;

    constructor() {
        welComeMessage = "Hello World";
    }
    //private internal external public
    function getMessage() public view returns (string memory){
        return welComeMessage;
    }

    function setMessage(string memory _msg) public {
        string memory message = getMessage();
        welComeMessage = _msg;
    }
}
```

Execution cost: infinite gas FunctionDefinition getMessage

1.25x 0:17 / 2:52

Overview Q&A Notes Announcements Reviews Learning tools

Student feedback

4.9

5 stars 71%
4 stars 25%
3 stars 0%

Your progress Share

Course content

- 11. Function Visibility - Private, Internal, External, Public
- 12. State Visibility - Private, Internal, External, Public
- 13. Basic Data Types
- 14. Structures
- 15. Arrays
- 16. Mapping
- 17. Enums
- 18. Events
- 19. Require, Revert, Assert
- 20. Global Variables
- 21. OOPS Containment
- 22. Constructors Revisited
- 23. OOPS Inheritance
- 24. OOPS Abstract Contracts

15°C Smoke 08:45 ENG IN 22-11-2022

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Your progress

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- 10. Memory vs Storage first glance
- 11. Function Visibility - Private, Internal, External, Public
- 12. State Visibility - Private, Internal, External, Public
- 13. Basic Data Types
- 14. Structures
- 15. Arrays
- 16. Mapping
- 17. Enums
- 18. Events
- 19. Require, Revert, Assert
- 20. Global Variables
- 21. OOPS Containment
- 22. Constructors Revisited
- 23. OOPS Inheritance

DEPLOY & RUN TRANSACTIONS

Deploy

Publish to IPFS

OR

At Address Load contract from Address

Transactions recorded 12

Deployed Contracts

FIRSTCONTRACT AT 0XB27...07C2C (

setMessage string _msg

getMessage

Low level interactions

string welComeMessage

4 reference(s)

Reviews

Learning tools

Student feedback

4.9

5 stars 71%
4 stars 25%
3 stars 0%

15°C Smoke

ENG IN

08:48 22-11-2022

Learn Solidity in 2 Hours, Become a Blockchain Developer

FILE EXPLORERS

default_workspace

contracts

- artifacts
- build-info
- artifacts
- FirstContract_metadata.json
- FirstContract.json
- DataType_metadata.json
- DataType.json
- 1_Storage.sol
- 2_Owner.sol
- 3_Ballot.sol
- FirstContract.sol
- DataTypes.sol
- scripts
- deploy_web3.js
- deploy_ether.js

```
// SPDX-License-Identifier: GPL-3.0
pragma solidity ^0.8.4;

contract DataType {
    string public ownerName;
    string public shopName;
    uint public ownerAge;
    address public ownerAddress;
    bool public isSmallScale;
    bytes public ownerDp;

    constructor() {
        ownerName = "Abhinav Kumar";
        shopName = "Four Blocks Ltd";
        ownerAge = 40;
        ownerAddress = msg.sender;
        isSmallScale = false;
        ownerDp = "some base64";
    }
}
```

Course content

- 13. Basic Data Types
- 14. Structures
- 15. Arrays
- 16. Mapping
- 17. Enums
- 18. Events
- 19. Require, Revert, Assert
- 20. Global Variables
- 21. OOPS Containment
- 22. Constructors Revisited
- 23. OOPS Inheritance
- 24. OOPS Abstract Contracts
- 25. Function Modifiers
- 26. Function Overloading

Student feedback

4.9

5:18 / 6:45

1.25x

15°C Smoke

ENG IN

08:53 22-11-2022

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The screenshot shows the Remix Ethereum IDE interface. The top navigation bar includes tabs for "Remix - Ethereum IDE", "Remove Noise from Your Video", and "[21] Devesh Chutkula Bhandari". The address bar displays the URL "remix.ethereum.org/#optimize=false&runs=200&evmVersion=null&version=soljson-v0.8.7+commit.e28d00a7.js". The left sidebar features a "FILE EXPLORERS" section with a "Workspaces" dropdown set to "default_workspace". Below it is a tree view of the workspace structure, including a "contracts" folder containing multiple artifact files (e.g., bdfd5aff98fc6bb781, 66e53284198a1f3a4, 5121b2c09d61f7894, ac577a31f50fb17e74, 0147c63c27331ec79, 2842c12fcdb9f7a06c, d6c4178bd019555dc, 71, f5a, a9, f20, 34630ffb5e09dd697). The main editor area contains the following Solidity code:

```
contract DataType {
    //ownerName, shopName, age, accountAddress, isSmallScale
    //ownerDP

    struct Shop {
        string ownerName;
        string shopName;
        uint ownerAge;
        address ownerAddress;
        bool isSmallScale;
        bytes ownerDp;
    }

    Shop public firstShop;

    constructor() {
        firstShop = Shop("Abhinav", "Four Blocks", 65, msg.sender);
    }
}
```

Course content

- 14. Structures
● 7min
 - 15. Arrays
● 5min
 - 16. Mapping
● 3min
 - 17. Enums
● 3min
 - 18. Events
● 3min
 - 19. Require, Revert, Assert
● 5min
 - 20. Global Variables
● 7min
 - 21. OOPS Containment
● 7min
 - 22. Constructors Revisited
● 2min
 - 23. OOPS Inheritance
● 7min
 - 24. OOPS Abstract Contracts
● 3min
 - 25. Function Modifiers
● 5min
 - 26. Function Overloading
● 2min
 - 27. Ether Units
● 1min

Student feedback

4.9



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Your progress

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Course content

- 14. Structures
- 15. Arrays
- 16. Mapping
- 17. Enums
- 18. Events
- 19. Require, Revert, Assert
- 20. Global Variables
- 21. OOPS Containment
- 22. Constructors Revisited
- 23. OOPS Inheritance
- 24. OOPS Abstract Contracts
- 25. Function Modifiers
- 26. Function Overloading
- 27. Ether Units

DEPLOY & RUN TRANSACTIONS

Deploy

Publish to IPFS

OR

At Address Load co

Transactions recorded 0

Deployed Contracts

Currently you have no contract instances to interact with.

FirstContract.sol

```
// SPDX-License-Identifier: GPL-3.0
pragma solidity ^0.8.4;
import "hardhat/console.sol";
contract DataType {
    //ownerName, shopName, age, accountAddress, isSmallScale
    //ownerDP
    struct Shop {
        string ownerName;
        string shopName;
        uint ownerAge;
        address ownerAddress;
        bool isSmallScale;
        bytes ownerDP;
    }
    Shop public firstShop;
}
```

Search with transaction hash or address

Overview Q&A Notes Announcements Reviews Learning tools

Student feedback

4.9

5 stars 71%
4 stars 25%
3 stars 0%

15°C Smoke

Search

08:59 22-11-2022

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Your progress

Share

Course content

- 14. Structures
- 15. Arrays
- 16. Mapping
- 17. Enums
- 18. Events
- 19. Require, Revert, Assert
- 20. Global Variables
- 21. OOPS Containment
- 22. Constructors Revisited
- 23. OOPS Inheritance
- 24. OOPS Abstract Contracts
- 25. Function Modifiers
- 26. Function Overloading
- 27. Ether Units

DEPLOY & RUN TRANSACTIONS

DataType - contracts

Deploy

Publish to IPFS

OR

At Address

Transactions recorded

Deployed Contracts

Currently you have no contract instances

ContractDefinition DataType

1 reference(s)

1.25x

4:56 / 6:59

listen on network

Search with transaction hash or address

Student feedback

4.9

5 stars 71%
4 stars 25%
3 stars 0%

15°C Smoke

ENG IN

09:00 22-11-2022

1

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Your progress Share

Course content

- 14. Structures
- 15. Arrays
- 16. Mapping
- 17. Enums
- 18. Events
- 19. Require, Revert, Assert
- 20. Global Variables
- 21. OOPS Containment
- 22. Constructors Revisited
- 23. OOPS Inheritance
- 24. OOPS Abstract Contracts
- 25. Function Modifiers
- 26. Function Overloading
- 27. Ether Units

DEPLOY & RUN TRANSACTIONS

Publish to IPFS

OR

At Address Load co

Transactions recorded 24

Deployed Contracts

DATATYPE AT 0X

firstShop logShop

call to DataType.logShop

console.log:
Owner: Abhinav
Owner Age: 65

[call] from: 0x5B38Da6a701c568545dCfcB03FcB875f56beddC4 to: DataType.logShop() data: 0x095...91508

Debug

Play

1.25x 5:22 / 6:59 Low-level Interactions

Student feedback

4.9

5 stars 71%
4 stars 25%
3 stars 0%

15°C Smoke

Search

ENG IN

09:01 22-11-2022

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Your progress

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- 15. Arrays
- 16. Mapping
- 17. Enums
- 18. Events
- 19. Require, Revert, Assert
- 20. Global Variables
- 21. OOPS Containment
- 22. Constructors Revisited
- 23. OOPS Inheritance
- 24. OOPS Abstract Contracts
- 25. Function Modifiers
- 26. Function Overloading
- 27. Ether Units

DEPLOY & RUN TRANSACTIONS

0 Wei

CONTRACT

DataType - contracts

Deploy

383 Publish to IPFS

OR

At Address Load co

Transactions recorded 24

Deployed Contracts

ContractDefinition DataType 1 reference(s)

Search with transaction hash or address

Play

1.25x 6:13 / 6:59 AT 0X

listen on network

Student feedback

4.9 ★★★★★ 71%
★★★★★ 25%
★★★★☆ 0%

15°C Smoke

Search

ENG IN

09:02 22-11-2022

1

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Share

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- 14. Structures
- 15. Arrays
- 16. Mapping
- 17. Enums
- 18. Events
- 19. Require, Revert, Assert
- 20. Global Variables
- 21. OOPS Containment
- 22. Constructors Revisited
- 23. OOPS Inheritance
- 24. OOPS Abstract Contracts
- 25. Function Modifiers
- 26. Function Overloading
- 27. Ether Units

DEPLOY & RUN TRANSACTIONS

Deploy

Publish to IPFS

OR

At Address

Transactions recorded

Deployed Contracts

DATATYPE AT 0x

logShop

firstShop

function logShop() public {
 console.log('Owner:', firstShop.ownerName);
 console.log('Owner Age:', firstShop.ownerAge);
 firstShop.ownerName = "Another Name";
 console.log('Owner:', firstShop.ownerName);
}

ContractDefinition DataType 1 reference(s)

0 listen on network Search with transaction hash or address

console.log:
Owner: Abhinav
Owner Age: 65
Owner: Another Name

[vm] from: 0x5B3...eddC4 to: DataType.logShop() 0x406...2Cfbc
value: 0 wei data: 0x095...91508 logs: 0 hash: 0x01e...f45cf

Debug

Play

1.25x 6:39 / 6:59

Student feedback

4.9

5 stars 71%
4 stars 25%
3 stars 0%

15°C Smoke

Search

Home

FirstContract.sol

DataTypes.sol

3_Ballot.sol

FirstContract

Reading List

ENG IN

09:03

22-11-2022

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Remix - Ethereum IDE | Remove Noise from Your Video | (21) Devesh Chutkula Bhanda | Remix - Ethereum IDE

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Your progress Share :

Course content

- 15. Arrays 5min
- 16. Mapping 3min
- 17. Enums 3min
- 18. Events 3min
- 19. Require, Revert, Assert 5min
- 20. Global Variables 7min
- 21. OOPS Containment 7min
- 22. Constructors Revisited 2min
- 23. OOPS Inheritance 7min
- 24. OOPS Abstract Contracts 3min
- 25. Function Modifiers 5min
- 26. Function Overloading 2min
- 27. Ether Units 1min
- 28. Understanding Gas 3min

Play

ContractDefinition DataType 1 reference(s)

1.25x 3:57 / 4:45 listen on network Search with transaction hash or address

Student feedback

4.9 ★★★★★ 71% ★★★★☆ 25% ★★★☆☆ 0%

15°C Smoke

Search

09:06 ENG IN 22-11-2022

1

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Your progress

Share

Course content

- 15. Arrays
- 16. Mapping
- 17. Enums
- 18. Events
- 19. Require, Revert, Assert
- 20. Global Variables
- 21. OOPS Containment
- 22. Constructors Revisited
- 23. OOPS Inheritance
- 24. OOPS Abstract Contracts
- 25. Function Modifiers
- 26. Function Overloading
- 27. Ether Units
- 28. Understanding Gas

DEPLOY & RUN TRANSACTIONS

At Address

Transactions recorded

Deployed Contracts

DATATYPE AT 0X

firstShop

logShop

shoppingMall

ContractDefinition

Data Type

1 reference(s)

listen on network

Search with transaction hash or address

Play

1.25x

4:29 / 4:45

Debug

Student feedback

4.9

5 stars: 71%

4 stars: 25%

3 stars: 0%

15°C Smoke

ENG IN

09:07

22-11-2022

The screenshot captures a session on the Udemy platform for a Solidity course. The main focus is a Remix IDE window displaying Solidity code for a 'shoppingMall' contract. The code includes a constructor that pushes a shop object to an array and a logShop() function that logs the owner's name and age. Below the code, the IDE shows deployed contracts like 'firstShop' and 'logShop', and a variable 'shoppingMall' of type uint[]. A yellow circle highlights a specific button in the interface, likely related to deployment or execution. To the right, a sidebar lists the course content with 28 lessons, each with a duration indicator. At the bottom, student feedback is shown with a high rating of 4.9 and a 71% completion rate for five-star reviews.

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Remix - Ethereum IDE

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Your progress

Share

Course content

- 16. Mapping
- 17. Enums
- 18. Events
- 19. Require, Revert, Assert
- 20. Global Variables
- 21. OOPS Containment
- 22. Constructors Revisited
- 23. OOPS Inheritance
- 24. OOPS Abstract Contracts
- 25. Function Modifiers
- 26. Function Overloading
- 27. Ether Units
- 28. Understanding Gas
- 29. Gas Optimisations

DEPLOY & RUN TRANSACTIONS

GAS LIMIT: 300000

VALUE: 0 Wei

CONTRACT: DataType - contracts*

Deploy

Publish to IPFS

At Address

Load co

Play

1.25x 2:15 / 3:11

listen on network

Search with transaction hash or address

4 reference(s)

struct DataType.Shop shop

Student feedback

4.9

5 stars: 71% (yellow)

4 stars: 25% (orange)

3 stars: 0% (grey)

15°C Smoke

ENG IN

09:12 22-11-2022

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Course content

- 16. Mapping
- 17. Enums
- 18. Events
- 19. Require, Revert, Assert
- 20. Global Variables
- 21. OOPS Containment
- 22. Constructors Revisited
- 23. OOPS Inheritance
- 24. OOPS Abstract Contracts
- 25. Function Modifiers
- 26. Function Overloading
- 27. Ether Units
- 28. Understanding Gas
- 29. Gas Optimisations

DEPLOY & RUN TRANSACTIONS

recorded

Deployed Contracts

DATATYPE AT 0X

firstShop

market

readShop

shoppingMall

Low level interactions

CALldata

Play

1.25x 2:49 / 3:11 Transact

Reviews

Student feedback

4.9

5 stars 71% 25% 0%

17°C Smoke

Search

9:13 ENG IN 22-11-2022

Remix - Ethereum IDE

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(21) Devesh Chukula Bhanda

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FirstContract.sol DataTypes.sol 3_Ballot.sol FirstContract.sol

```
function readShop() public view {
    Shop[] memory mall = market["market"];
    for(uint i; i< mall.length; i++) {
        Shop memory shop = shoppingMall[i];
        console.log('Owner:', shop.ownerName);
        console.log('Owner Age:', shop.ownerAge);
        console.log('Owner:', shop.ownerName);
    }
}

struct DataType.Shop shop
4 reference(s)
```

0 listen on network

Search with transaction hash or address

[call] from: 0x5B38Da6a701c568545dCfcB03FcB875f56beddC4 to: DataTypes.readShop() data: 0x182...5d976

Debug

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FILE EXPLORERS

default_workspace

contracts

artifacts

build-info

FirstContract_metadata.json

FirstContract.sol

DataTypes.sol

Shop

ownerName

shopName

ownerAge

ownerAddress

isSmallScale

ownerDp

State

firstShop

shoppingMall

market

1_Sol

2_Owner.sol

3_Ballot.sol

4.9

5.0 71%

4.5 25%

3.5 0%

Student feedback

Course content

- 17. Enums
- 18. Events
- 19. Require, Revert, Assert
- 20. Global Variables
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- 24. OOPS Abstract Contracts
- 25. Function Modifiers
- 26. Function Overloading
- 27. Ether Units
- 28. Understanding Gas
- 29. Gas Optimisations
- 30. Transactions

17°C Smoke

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1.25x 0:49 / 3:24 FirstContract.sol

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ENG IN

09:17 22-11-2022

Learn Solidity in 2 Hours, Become a Blockchain Developer

FILE EXPLORERS

default_workspace

contracts

artifacts

build-info

({}) 26f32df1d7b53bbb70086c7f6f71d930

({}) 363f3afff3a139c84cc20ea53ca65a86.j

({}) f2236a5e7716dea34267c57e15eb2ca

({}) 41027217321a39737eb229fa66104c

({}) be4acf070a2e8a5e476d514063b39c5

({}) c8f5164b1f6bc8803d586472fd2c0ce8

({}) 76eaf2d2358117d0178105403eb459

artifacts

FirstContract_metadata.json

FirstContract.json

DataType_metadata.json

DataType.json

1_Sorage.sol

2.15 / 3:24 _Contract.sol

1.25x

listen on network

Type the library name to see available commands.

Search with transaction hash or address

Student feedback

4.9

★★★★★ 71%

★★★★★ 25%

★★★★★ 0%

Course content

- 17. Enums
- 18. Events
- 19. Require, Revert, Assert
- 20. Global Variables
- 21. OOPS Containment
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- 27. Ether Units
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- 30. Transactions

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Your progress

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- 19. Require, Revert, Assert
- 20. Global Variables
- 21. OOPS Containment
- 22. Constructors Revisited
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- 24. OOPS Abstract Contracts
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- 27. Ether Units
- 28. Understanding Gas
- 29. Gas Optimisations
- 30. Transactions

DEPLOY & RUN TRANSACTIONS

At Address Load contract from Address

Transactions recorded 1

Deployed Contracts

DATATYPE AT 0xD91...39138 (MEMO)

firstShop

market string , uint256

readShop

shoppingMall uint256

Shop[] memory mall = market["market"];
for(uint i; i< mall.length; i++) {
 Shop memory shop = shoppingMall[i];
 console.log('Owner:', shop.ownerName);
 console.log('Owner Age:', shop.ownerAge);
 console.log('Owner:', shop.ownerName);
 if (shop.state == State.Open) {
 console.log("Shop is open");
 } else {
 console.log("Shop is closed");
 }
}

console.log:
Owner: Abhinav
Owner Age: 65
Owner: Abhinav
Shop is open

[call]
from: 0x5B38Da6a701c568545dCfcB03FcB875f56beddC4
to: DataType.readShop() data: 0x182...5d9/6

Debug

Play

1.25x 2:59 / 3:24 Low level interactions

Overview Q&A Notes Announcements Reviews Learning tools

Student feedback

4.9

5 stars 71%
4 stars 25%
3 stars 0%

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- 18. Events
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- 24. OOPS Abstract Contracts
- 25. Function Modifiers
- 26. Function Overloading
- 27. Ether Units
- 28. Understanding Gas
- 29. Gas Optimisations
- 30. Transactions
- 31. Memory Types Revisited

Play

1.25x 2:18 / 3:03 Shop public firstShop;

Student feedback

4.9 ★★★★★ 71% ★★★★☆ 25% ★★★☆☆ 0%

17°C Smoke

Search

09:21 ENG IN 22-11-2022

```
6 import "hardhat/console.sol";
7
8 contract DataType {
9     //ownerName, shopName, age, accountAddress, isSmallScale
10    //ownerDP
11
12    event ShopState(string shopStatus);
13
14    enum State {
15        Open,
16        Closed
17    }
18
19    struct Shop {
20        string ownerName;
21        string shopName;
22        uint ownerAge;
23        address ownerAddress;
24        bool isSmallScale;
25        bytes ownerDP;
26        State state;
27    }
28
29 Shop public firstShop;
```

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- 31. Memory Types Revisited

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★★★★★ 25%
★★★★☆ 0%

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Course content

- 19. Require, Revert, Assert
🕒 5min
 - 20. Global Variables
🕒 7min
 - 21. OOPS Containment
🕒 7min
 - 22. Constructors Revisited
🕒 2min
 - 23. OOPS Inheritance
🕒 7min
 - 24. OOPS Abstract Contracts
🕒 3min
 - 25. Function Modifiers
🕒 5min
 - 26. Function Overloading
🕒 2min
 - 27. Ether Units
🕒 1min
 - 28. Understanding Gas
🕒 3min
 - 29. Gas Optimisations
🕒 3min
 - 30. Transactions
🕒 5min
 - 31. Memory Types Revisited
🕒 7min

Section 3: Polling Smart Contract

0 / 3134min

The screenshot shows the Remix Ethereum IDE interface. The top navigation bar includes tabs for "Remix - Ethereum IDE" and "news - Google Search". Below the tabs, there are links for "Apps", ":: IRCTC :: - Quick...", and "Home | Wix.com". On the right side of the header, there are icons for search, refresh, star, and update, along with a "Reading List" button.

The main workspace displays a Solidity smart contract named `DataTypes.sol`. The code defines a `Shop` struct and a `Market` mapping. It includes a constructor to initialize the market and a `readShop` function to log shop details and check its state. The code is annotated with comments and requires the `msg.sender` to be the shop owner.

```
constructor() {
    firstShop = Shop("Abhinav", "Four Blocks", 65, msg.sender, false, "somexyzDp", State.Closed);
    shoppingMall.push(firstShop);
    market["market"] = shoppingMall;
}

function readShop() public {
    //require, revert assert
    Shop[] memory mall = market["market"];
    for(uint i; i < mall.length; i++) {
        Shop memory shop = shoppingMall[i];
        require(shop.state == State.Open,'In order to proceed the shop should be open');

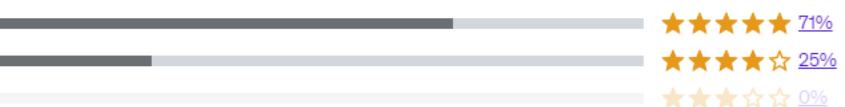
        console.log('Owner:', shop.ownerName);
        console.log('Owner Age:', shop.ownerAge);
        console.log('Owner:', shop.ownerName);
        if (shop.state == State.Open) {
            console.log("Shop is open");
        } else {
            console.log("Shop is closed");
        }
    }
}
```

The bottom status bar shows the file number as 56, the line number as 57, and the timestamp as 1:37 4-56. There are also icons for file operations like save and close, and a "udem" logo.

[Overview](#) [Q&A](#) [Notes](#) [Announcements](#) [Reviews](#) [Learning tools](#)

Student feedback

4.9



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Course content

- 19. Require, Revert, Assert 5min
- 20. Global Variables 7min
- 21. OOPS Containment 7min
- 22. Constructors Revisited 2min
- 23. OOPS Inheritance 7min
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- 28. Understanding Gas 3min
- 29. Gas Optimisations 3min
- 30. Transactions 5min
- 31. Memory Types Revisited 7min

Section 3: Polling Smart Contract

0 / 3 | 34min

17°C Smoke

1.25x 2:05 / 4:56

Play

Deploy

Publish to IPFS

OR

At Address Load contract from Address

Transactions recorded 26

Deployed Contracts

DATATYPE AT 0X406...2CFBC (MEMO)

readShop firstShop

constructor() {
 firstShop = Shop("Abhinav", "Four Blocks", 65, msg.sender);
 shoppingMall.push(firstShop);
 market["market"] = shoppingMall;
}

function readShop() public {
 //require, revert assert
 Shop[] memory mall = market["market"];
 for(uint i; i < mall.length; i++) {
 Shop memory shop = shoppingMall[i];
 }
}

revert
The transaction has been reverted to the initial state.
Reason provided by the contract: "In order to proceed the shop should be open"
Debug the transaction to get more information.

[vm] from: 0x5B3...eddC4 to: DataType.readShop() 0x406...2Cfbc value: 0 wei data: 0x182...5d976 logs: 0 hash: 0xaf4...aecbb

Debug

Student feedback

4.9

5 stars 71%
4 stars 25%
3 stars 0%

Search

17°C Smoke

ENG IN

09:24 22-11-2022

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- 20. Global Variables
- 21. OOPS Containment
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- 31. Memory Types Revisited

Section 3: Polling Smart Contract

0 / 3 | 34min

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4.9

Student feedback

5 stars: 71%
4 stars: 25%
3 stars: 0%

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remix.ethereum.org/#optimize=false&runs=200&evmVersion=null&version=soljson-v0.8.15.min.js commit.e28d00a7.js

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DataTypes.sol

```
constructor() {
    firstShop = Shop("Abhinav", "Four Blocks", 65, msg.sender, false, "somexyzDp", State.Closed);
    shoppingMall.push(firstShop);
    market["market"] = shoppingMall;
}

function readShop() public {
    //require, revert assert
    Shop[] memory mall = market["market"];
    for(uint i; i < mall.length; i++) {
        Shop memory shop = shoppingMall[i];
        //require(shop.state == State.Open,'In order to proceed the shop should be open');
        if (shop.state == State.Closed) {
            revert('In order to proceed the shop should be open');
        }

        console.log('Owner:', shop.ownerName);
        console.log('Owner Age:', shop.ownerAge);
        console.log('Owner:', shop.ownerName);
        if (shop.state == State.Open) {
            console.log("Shop is open");
        } else {
            console.log("Shop is closed");
        }
    }
}
```

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- 30. Transactions 5min
- 31. Memory Types Revisited 7min

Section 3: Polling Smart Contract

0 / 3 | 34min

17°C Smoke

100%

80%

25%

0%

4.9

Play

1.25x 3:19 / 4:56

string , uint256

[vm] from: 0x5B3...eddC4 to: DataType.readShop() 0x540...c7569 value: 0 wei

Debug

Student feedback

Reviews

Learning tools

Overview Q&A Notes Announcements

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1

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- 27. Ether Units
- 28. Understanding Gas
- 29. Gas Optimisations
- 30. Transactions
- 31. Memory Types Revisited

Section 3: Polling Smart Contract

17°C Smoke

1 ENG IN 09:28 22-11-2022

DEPLOY & RUN TRANSACTIONS

Deploy

Publish to IPFS

OR

At Address Load contract from Address

Transactions recorded 30

Deployed Contracts

DATATYPE AT 0X049...A1FD3 (MEMC)

readShop

firstShop

Play

1.25x 4:25 / 4:56

string , uint256

5 reference(s)

```
//require(shop.state == State.Open,'In order to proceed the shop should be open');
/*if (shop.state == State.Closed) {
    revert('In order to proceed the shop should be open');
}
assert(shop.state == State.Open);

console.log('Owner:', shop.ownerName);
console.log('Owner Age:', shop.ownerAge);
console.log('Owner:', shop.ownerName);
if (shop.state == State.Open) {
    console.log("Shop is open");
}

string ownerName
```

revert

The transaction has been reverted to the initial state.

Note: The called function should be payable if you send value and the value sent is less than the gas fee. Debug the transaction to get more information.

[vm] from: 0x5B3...eddC4 to: DataType.readShop() 0x049...A1Fd3 value: 0 wei data: 0x182...5d976 logs: 0 hash: 0x5d0...04cc4

Debug

Student feedback

4.9

5 stars 71% 25% 0%

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Learning tools

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Your progress Share :

Course content

- 19. Require, Revert, Assert (5min)
- 20. Global Variables (7min)
- 21. OOPS Containment (7min)
- 22. Constructors Revisited (2min)
- 23. OOPS Inheritance (7min)
- 24. OOPS Abstract Contracts (3min)
- 25. Function Modifiers (5min)
- 26. Function Overloading (2min)
- 27. Ether Units (1min)
- 28. Understanding Gas (3min)
- 29. Gas Optimisations (3min)
- 30. Transactions (5min)
- 31. Memory Types Revisited (7min)

Section 3: Polling Smart Contract

0 / 3 | 34min

17°C Smoke

4.9 ★★★★★ 71% ★★★★☆ 25% ★★★☆☆ 0%

Overview Q&A Notes Announcements Reviews Learning tools

Student feedback

Remix - Ethereum IDE

remix.ethereum.org/#optimize=false&runs=200&evmVersion=null&version=soljson-v0.8.7+commit.e28d00a7.js

ContractStructure.sol FirstContract.sol DataTypes.sol

```
constructor() {
    firstShop = Shop("Abhinav", "Four Blocks", 65, msg.sender, false, "somexyzDp", State.Open);
    shoppingMall.push(firstShop);
    market["market"] = shoppingMall;
}

function demoGlobals() public view {
    //tx
    console.log('tx origin: ', tx.origin);

    //msg
    console.log('msg sender', msg.sender);

    User A -> SM A -> SM B
    tx.origin = User A, msg.sender = SM A
}

function readShop() public {
    //require, revert assert
    Shop[] memory mall = market["market"];
    for(uint i: i < mall.length: i++) {
```

385

Üdem

Search

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Your progress Share :

SOLIDITY COMPILER

COMPILER 0.8.7+commit.e28d00a7

Include nightly builds

LANGUAGE Solidity

EVM VERSION default

COMPILER CONFIGURATION Auto compile

Enable optimization

Hide warnings

Compile

Overview Q&A Notes Announcements Reviews Learning tools

Student feedback

4.9

5 stars 71% 25% 0%

Course content

- 19. Require, Revert, Assert 5min
- 20. Global Variables 7min
- 21. OOPS Containment 7min
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- 29. Gas Optimisations 3min
- 30. Transactions 5min
- 31. Memory Types Revisited 7min

Section 3: Polling Smart Contract

0 / 3 | 34 min

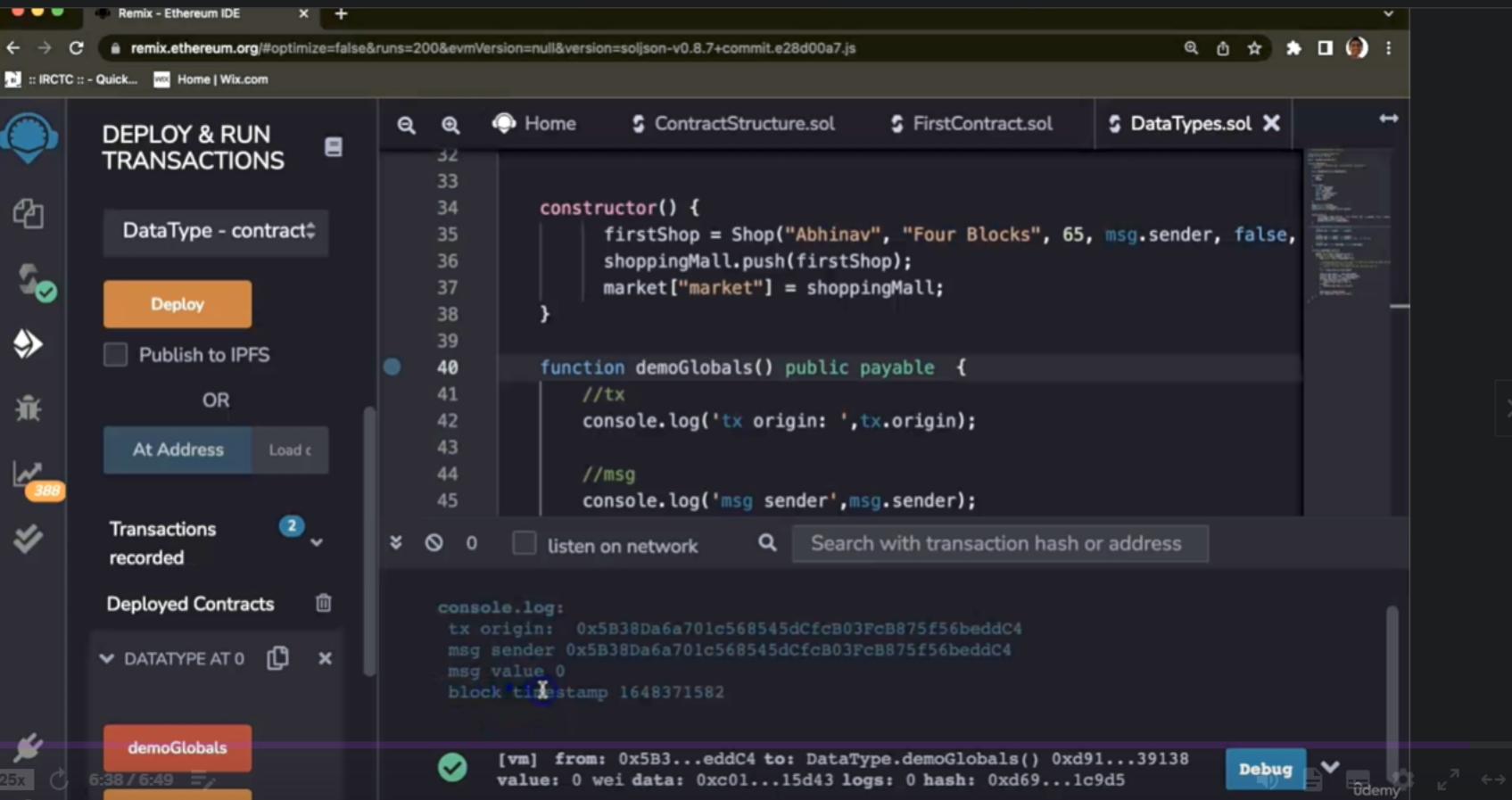
17°C Smoke

Search

09:34 22-11-2022

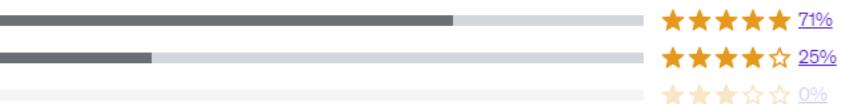
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Student feedback

4.9



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- 19. Require, Revert, Assert
 5min
 - 20. Global Variables
 7min
 - 21. OOPS Containment
 7min
 - 22. Constructors Revisited
 2min
 - 23. OOPS Inheritance
 7min
 - 24. OOPS Abstract Contracts
 3min
 - 25. Function Modifiers
 5min
 - 26. Function Overloading
 2min
 - 27. Ether Units
 1min
 - 28. Understanding Gas
 3min
 - 29. Gas Optimisations
 3min
 - 30. Transactions
 5min
 - 31. Memory Types Revisited
 7min

Section 3: Polling Smart Contract

0 / 3 | 34min

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FILE EXPLORERS

Workspaces default_workspace

contracts

- artifacts
- 1_Storage.sol
- 2_Owner.sol
- 3_Ballot.sol
- FirstContract.sol
- DataTypes.sol
- OOPS.sol
- Containment.sol

scripts

tests

.deps

artifacts

README.txt

ContractStructure.sol

```
// SPDX-License-Identifier: GPL-3.0
pragma solidity ^0.8.4;
import "hardhat/console.sol";

//1. Car has a Chassis
//2. Chassis has a chassis number

contract Chassis {
    string private chassisNo;

    constructor(string memory _chassisNo) {
        chassisNo = _chassisNo;
    }

    function getChassisNo() public view returns (string memory) {
        return chassisNo;
    }
}
```

Course content

- 19. Require, Revert, Assert
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- 26. Function Overloading
- 27. Ether Units
- 28. Understanding Gas
- 29. Gas Optimisations
- 30. Transactions
- 31. Memory Types Revisited

Student feedback

4.9

5 stars 71%
4 stars 25%
3 stars 0%

17°C Smoke

Search

09:38 22-11-2022

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FILE EXPLORERS

```
contract Car {
    Chassis private chassis;

    constructor(Chassis _chassis) {
        chassis = _chassis;
    }

    function getCarChNumber() public view returns (string memory) {
        return chassis.getChassisNo();
    }
}

contract Chassis {
    string private chassisNo;

    constructor(string memory _chassisNo) {
        chassisNo = _chassisNo;
    }

    function getChassisNo() public view returns
        return chassisNo;
}
```

Course content

- 19. Require, Revert, Assert
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- 26. Function Overloading
- 27. Ether Units
- 28. Understanding Gas
- 29. Gas Optimisations
- 30. Transactions
- 31. Memory Types Revisited

Student feedback

4.9

5:29 / 7:19

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- 20. Global Variables
- 21. OOPS Containment
- 22. Constructors Revisited
- 23. OOPS Inheritance
- 24. OOPS Abstract Contracts
- 25. Function Modifiers
- 26. Function Overloading
- 27. Ether Units
- 28. Understanding Gas
- 29. Gas Optimisations
- 30. Transactions
- 31. Memory Types Revisited

Section 3: Polling Smart Contract

0 / 3 | 34min

18°C Smoke

10:14 22-11-2022

DEPLOY & RUN TRANSACTIONS

VALUE: 0 Wei

CONTRACT: Chassis - contracts/

DEPLOY: _CHASSISNO: ch1234!

transact

Publish to IPFS

OR

contract Car {
 Chassis private chassis;

 constructor(Chassis _chassis) {
 chassis = _chassis;
 }

 function getCarChNumber() public view returns (string memory) {
 return chassis.getChassisNo();
 }
}

contract Chassis {
 string private chassisNo;

 constructor(string memory _chassisNo) {
 chassisNo = _chassisNo;
 }

 function getChassisNo() public view returns (string memory) {
 return chassisNo;
 }
}

1.25x 6:03 / 7:19

contract Chassis chassis → 3 reference(s) 🔍

Reviews Learning tools

Student feedback

4.9

5 stars 71%
4 stars 25%
3 stars 0%

Search

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- 29. Gas Optimisations
- 30. Transactions
- 31. Memory Types Revisited

Section 3: Polling Smart Contract

0 / 3 | 34min

18°C Smoke

10:15 22-11-2022

Student feedback

4.9

5 stars: 71%
4 stars: 25%
3 stars: 0%

Overview Q&A Notes Announcements Reviews Learning tools

At Address 6:32 / 7:19 Load c

1.25x

contract Chassis chassis {
 string private chassisNo;
}

contract Car {
 Chassis private chassis;

 constructor(Chassis _chassis) {
 chassis = _chassis;
 }

 function getCarChNumber() public view returns (string memory) {
 return chassis.getChassisNo();
 }
}

Play

Home OOPs.sol Containment.sol

Deploy & Run Transactions

Value: 0 Wei

Contract: Car - contracts/Cont

Deploy

_CHASSIS: ADAD5eE3

transact

Publish to IPFS

OR

Remix - Ethereum IDE

remix.ethereum.org/#optimize=false&runs=200&evmVersion=null&version=soljson-v0.8.7+commit.e28d00a7.js

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Your progress Share :

Course content

- 19. Require, Revert, Assert
- 20. Global Variables
- 21. OOPS Containment
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- 26. Function Overloading
- 27. Ether Units
- 28. Understanding Gas
- 29. Gas Optimisations
- 30. Transactions
- 31. Memory Types Revisited

Section 3: Polling Smart Contract

0 / 3 | 34min

18°C Smoke

10:15 22-11-2022

DEPLOY & RUN TRANSACTIONS

At Address Load c

Transactions recorded 8

Deployed Contracts

CHASSIS AT 0X... CAR AT 0XD7...

getCarChNum...

0: string: ch12345

1.25x 6:56 / 7:19

ContractDefinition Chassis 3 reference(s)

Reviews Learning tools

Student feedback

4.9

5 stars 71% 25% 0%

Search

18°C Smoke

10:15 22-11-2022

ENG IN

1

18°C Smoke

10:15 22-11-2022

ENG IN

1

Learn Solidity in 2 Hours, Become a Blockchain Developer

Remix - Ethereum IDE

https://www.udemy.com/course/learn-solidity-in-2-hours/learn/lecture/31771564#reviews

Your progress

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- 19. Require, Revert, Assert
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- 30. Transactions
- 31. Memory Types Revisited

Section 3: Polling Smart Contract

0 / 3 | 34min

19°C Smoke

10:23 22-11-2022

DEPLOY & RUN TRANSACTIONS

ENVIRONMENT

JavaScript VM (Local)

VM

ACCOUNT

0x5B3...ed

GAS LIMIT

30000

VALUE

0 Wei

CONTRACT

console - hardhat/console

Play

1.25x 3:30 / 6:34

ContractDefinition SavingAccount

1 reference(s)

Reviews

Learning tools

Student feedback

4.9

★★★★★ 71%

★★★★☆ 25%

★★★☆☆ 0%

Search

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- 25. Function Modifiers
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- 28. Understanding Gas
- 29. Gas Optimisations
- 30. Transactions
- 31. Memory Types Revisited

Section 3: Polling Smart Contract

4.9

19°C
Polluted air

10:24
22-11-2022

```
contract Account {  
    uint internal balance = 0;  
  
    function getBalance() public view returns (uint) {  
        return balance;  
    }  
  
    function getIntrest() virtual public view {  
        console.log('Acccount Type Not Defined');  
    }  
  
}  
  
contract SavingAccount is Account {  
  
    function getIntrest() override public view {  
        console.log(['Interest Rate = 8%']);  
    }  
}
```

Learn Solidity in 2 Hours, Be... x in (2) Feed | LinkedIn x | Unlock Excel VBA and Excel Mac... x | Remix - Ethereum IDE x +

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Remix - Ethereum IDE

remix.ethereum.org/#optimize=false&runs=200&evmVersion=null&version=soljson-v0.8.7+commit.e28d00a7.js

IRCTC :: Quick... Home | Wix.com

DEPLOY & RUN TRANSACTIONS

0 Wei

CONTRACT

Account - contracts

Deploy

Publish to IPFS

OR

At Address Load c

Transactions recorded 11

Deployed Contracts

Play

1.25x 4:26 / 6:34

contract Account {
 uint internal balance = 0;

 function getBalance() public view returns (uint) {
 return balance;
 }

 function getIntrest() virtual public view {
 console.log('Acccount Type Not Defined');
 }

} contract SavingAccount is Account {

 function getIntrest() override public view {
 console.log('Interest Rate = 8%');
 }

}

Course content

- 19. Require, Revert, Assert 5min
- 20. Global Variables 7min
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- 28. Understanding Gas 3min
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- 30. Transactions 5min
- 31. Memory Types Revisited 7min

Student feedback

4.9

★★★★★ 71%
★★★★☆ 25%
★★★☆☆ 0%

19°C AQI 263

Search

10:25 22-11-2022

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- 28. Understanding Gas
- 29. Gas Optimisations
- 30. Transactions
- 31. Memory Types Revisited

Section 3: Polling Smart Contract

4.9

19°C Smoke

10:25 22-11-2022

```
contract Account {  
    uint internal balance = 0;  
  
    function getBalance() public view returns (uint) {  
        return balance;  
    }  
  
    function getIntrest() virtual public view {  
        console.log('Acccount Type Not Defined');  
    }  
  
}  
  
contract SavingAccount is Account {  
  
    function getIntrest() override public view {  
        console.log('Interest Rate = 8%');  
    }  
}
```

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- 26. Function Overloading
- 27. Ether Units
- 28. Understanding Gas
- 29. Gas Optimisations
- 30. Transactions
- 31. Memory Types Revisited

Student feedback

4.9

5:17 / 6:34

1.25x

19°C Smoke

10:26 22-11-2022

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LOW BATTERY
Your Mac will sleep soon unless plugged into a power outlet.

Course content

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- 22. Constructors Revisited
- 23. OOPS Inheritance
- 24. OOPS Abstract Contracts
- 25. Function Modifiers
- 26. Function Overloading
- 27. Ether Units
- 28. Understanding Gas
- 29. Gas Optimisations
- 30. Transactions
- 31. Memory Types Revisited

Student feedback

4.9

5:44 / 6:34

1.25x

Reviews

Learning tools

Overview Q&A Notes Announcements

19°C Smoke

10:27 22-11-2022

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- 20. Global Variables
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- 23. OOPS Inheritance
- 24. OOPS Abstract Contracts
- 25. Function Modifiers
- 26. Function Overloading
- 27. Ether Units
- 28. Understanding Gas
- 29. Gas Optimisations
- 30. Transactions
- 31. Memory Types Revisited

Section 3: Polling Smart Contract

4.9

19°C Smoke

10:29 22-11-2022

```
import "hardhat/console.sol";

abstract contract Account {
    uint internal balance = 0;

    function getBalance() public view returns (uint) {
        return balance;
    }

    function getIntrest() virtual public view;
}

contract SavingAccount is Account {

    function getIntrest() override public view {
        console.log('Interest Rate = 8%');
    }
}
```

Learn Solidity in 2 Hours, Become a Blockchain Developer

Remix - Ethereum IDE

Alert

This contract may be abstract, not implement an abstract parent's methods completely or not invoke an inherited contract's constructor correctly.

OK

```
function getInterest() virtual public view;
```

```
contract SavingAccount is Account {
    function getInterest() override public view {
        console.log('Interest Rate = 8%');
    }
}
```

DEPLOY & RUN TRANSACTIONS

CONTRACT

Account - contracts/Inheritance.sol

Deploy

Publish to IPFS

OR

At Address Load contract from Address

Transactions recorded 0

Deployed Contracts

Currently you have no contracts instances to interact with.

ContractDefinition Account 2 reference(s)

1.25x 1:59 / 3:06

Student feedback

4.9

5 stars 71%
4 stars 25%
3 stars 0%

Course content

- 19. Require, Revert, Assert 5min
- 20. Global Variables 7min
- 21. OOPS Containment 7min
- 22. Constructors Revisited 2min
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- 29. Gas Optimisations 3min
- 30. Transactions 5min
- 31. Memory Types Revisited 7min

Section 3: Polling Smart Contract

0 / 3 | 34min

19°C Smoke

ENG IN

10:30 22-11-2022

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Your progress Share :

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- 22. Constructors Revisited
- 23. OOPS Inheritance
- 24. OOPS Abstract Contracts
- 25. Function Modifiers
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- 27. Ether Units
- 28. Understanding Gas
- 29. Gas Optimisations
- 30. Transactions
- 31. Memory Types Revisited

Section 3: Polling Smart Contract

0 / 3 | 34min

19°C Smoke

10:30 22-11-2022

DEPLOY & RUN TRANSACTIONS

VALUE: 0 Wei

CONTRACT: SavingAccount - contracts/Inheritance.sol

Deploy

383 Publish to IPFS

OR

At Address Load contract from Address

Transactions recorded 2

Deployed Contracts

Play

1.25x 2:23 / 3:06

ContractDefinition Account 2 reference(s)

Student feedback

4.9

5 stars 71% 25% 0%

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Windows Search

File Explorer Task View Taskbar

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- 29. Gas Optimisations
- 30. Transactions
- 31. Memory Types Revisited

Section 3: Polling Smart Contract

0 / 3 | 34min

19°C Smoke

10:31 22-11-2022

4.9

5 stars: 71%
4 stars: 25%
3 stars: 0%

DEPLOY & RUN TRANSACTIONS

At Address Load contract from Address

Transactions recorded 2

Deployed Contracts

SAVINGACCOUNT AT 0xD8B..33FAB

getBalance

0: uint256: 0

getInterest

Low level interactions

CALLDATA

Transact

1.25x 2:45 / 3:06

Search with transaction hash or address

call to SavingAccount.getInterest

console.log:
Interest Rate = 8%

[call]
from: 0x5B38Da6a701c568545dCfcB03FcB875f56beddC4
to: SavingAccount.getInterest() data: 0x358...1066a

Debug

Remix - Ethereum IDE

remix.ethereum.org/#optimize=false&runs=200&evmVersion=null&version=soljson-v0.8.7+commit.e28d00a7.js

Your progress Share

Search

19°C Smoke

10:31 22-11-2022

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- 21. OOPS Containment
- 22. Constructors Revisited
- 23. OOPS Inheritance
- 24. OOPS Abstract Contracts
- 25. Function Modifiers
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- 27. Ether Units
- 28. Understanding Gas
- 29. Gas Optimisations
- 30. Transactions
- 31. Memory Types Revisited

Section 3: Polling Smart Contract

4.9 ★★★★★ 71%
★★★★★ 25%
★★★★☆ 0%

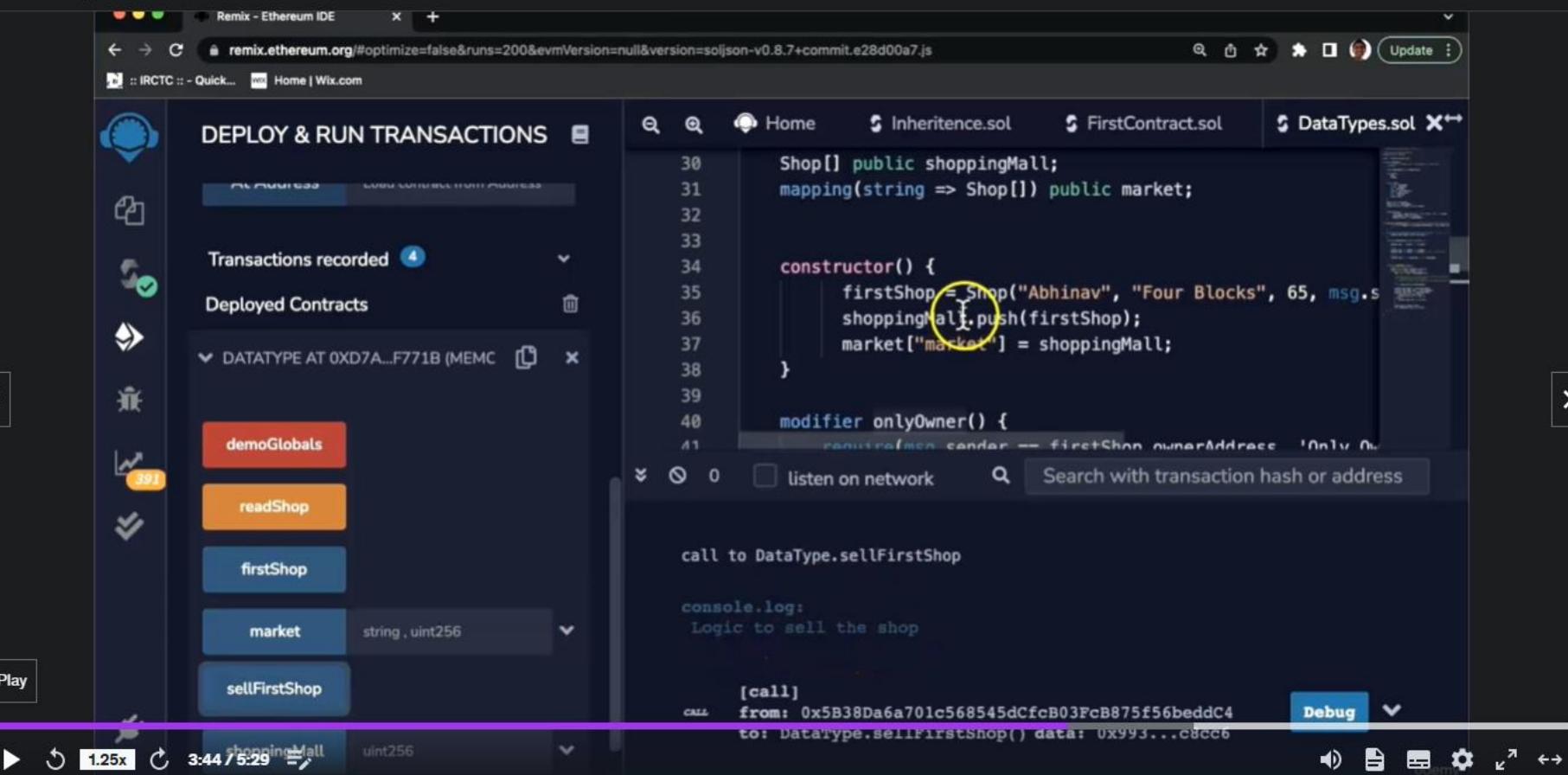
Student feedback

19°C Smoke

10:35 22-11-2022

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Student feedback

4.9



Course content

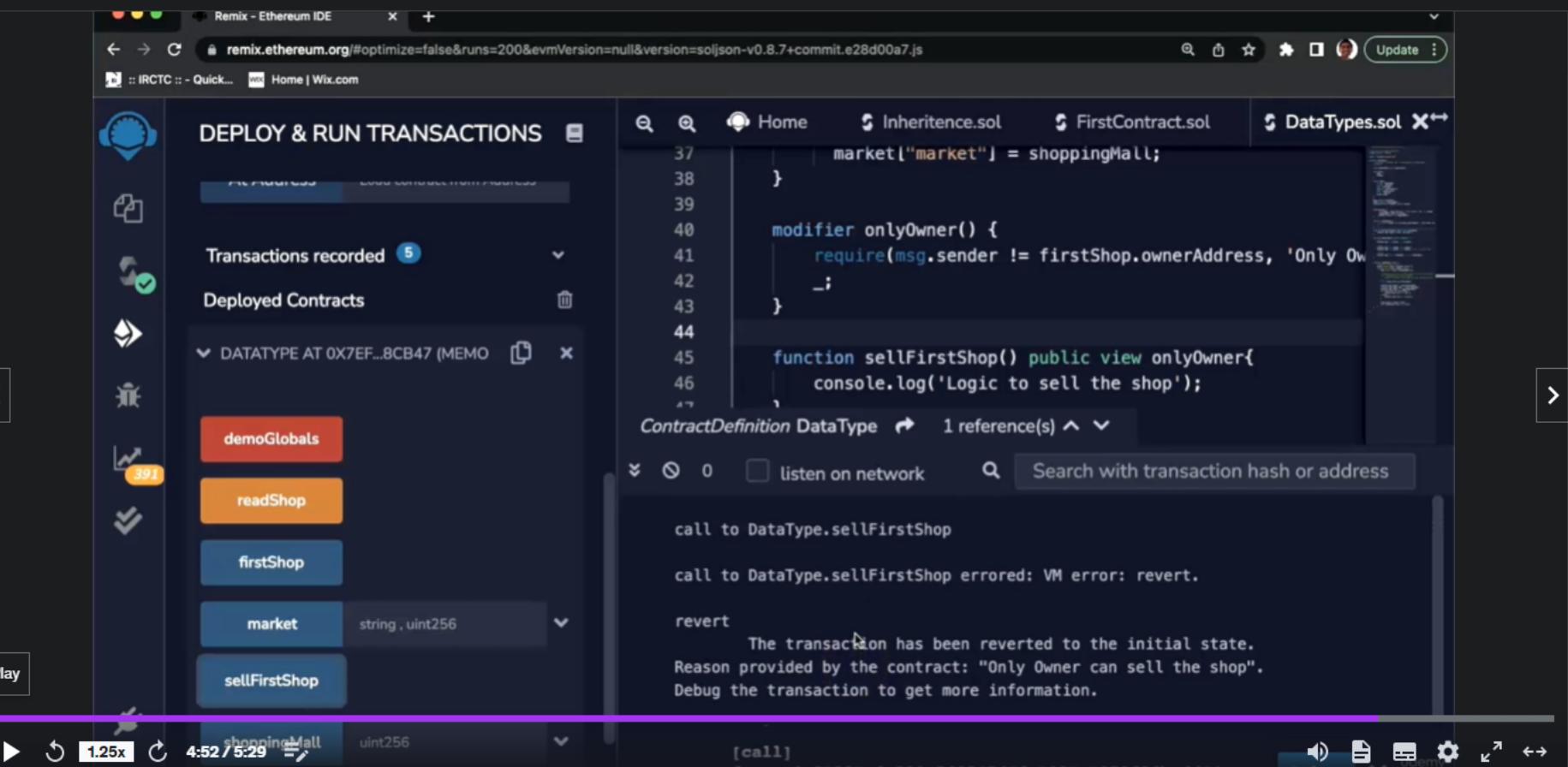
- 19. Require, Revert, Assert
 5min
 - 20. Global Variables
 7min
 - 21. OOPS Containment
 7min
 - 22. Constructors Revisited
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 2min
 - 27. Ether Units
 1min
 - 28. Understanding Gas
 3min
 - 29. Gas Optimisations
 3min
 - 30. Transactions
 5min
 - 31. Memory Types Revisited
 7min

Section 3: Building Smart Contract

0 / 3 | 34 min

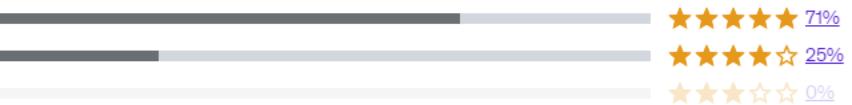
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Student feedback

4.9



Course content

- 19. Require, Revert, Assert
🕒 5min
 - 20. Global Variables
🕒 7min
 - 21. OOPS Containment
🕒 7min
 - 22. Constructors Revised
🕒 2min
 - 23. OOPS Inheritance
🕒 7min
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🕒 3min
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🕒 3min
 - 29. Gas Optimisations
🕒 3min
 - 30. Transactions
🕒 5min
 - 31. Memory Types Revised
🕒 7min

Section 3: Polling Smart Contract

/3134min

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Course content

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- 20. Global Variables
- 21. OOPS Containment
- 22. Constructors Revisited
- 23. OOPS Inheritance
- 24. OOPS Abstract Contracts
- 25. Function Modifiers
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- 29. Gas Optimisations
- 30. Transactions
- 31. Memory Types Revisited

Section 3: Polling Smart Contract

0 / 3 | 34min

Student feedback

4.9

5 stars: 71%
4 stars: 25%
3 stars: 0%

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10:40 22-11-2022

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- 29. Gas Optimisations
- 30. Transactions
- 31. Memory Types Revisited

Student feedback

4.9

5 stars: 71%
4 stars: 25%
3 stars: 0%

19°C Smoke

Search

10:40 22-11-2022

Learn Solidity in 2 Hours, Be... x in (2) Feed | LinkedIn x | Unlock Excel VBA and Excel Mac... x | Remix - Ethereum IDE x +

https://www.udemy.com/course/learn-solidity-in-2-hours/learn/lecture/31771706#reviews

etherchain.org

Unit Converter

1 Wei = 10^{-18} Ethers
1 GWei = 10^{-9} Ethers

INFO: Ethereum uses a lot of different units like Wei, GWei, Shannon and Ether. You can use this tool to convert between them.

Wei
KWei
MWei
GWei (Shannon)
Szabo
Finney
Ether
KEther
MEther
GEther

1.25x 0:41 / 0:45 0:00000001

Play

Overview Q&A Notes Announcements Reviews Learning tools

Student feedback

4.9 ★★★★★ 71%
★★★★★ 25%
★★★★☆ 0%

Your progress Share ...

Course content

- 19. Require, Revert, Assert (5min)
- 20. Global Variables (7min)
- 21. OOPS Containment (7min)
- 22. Constructors Revisited (2min)
- 23. OOPS Inheritance (7min)
- 24. OOPS Abstract Contracts (3min)
- 25. Function Modifiers (5min)
- 26. Function Overloading (2min)
- 27. Ether Units (1min)
- 28. Understanding Gas (3min)
- 29. Gas Optimisations (3min)
- 30. Transactions (5min)
- 31. Memory Types Revisited (7min)

Section 3: Polling Smart Contract
0 / 3 | 34min

19°C Smoke ENG IN 10:41 22-11-2022

Learn Solidity in 2 Hours, Become a Blockchain Developer

Remix - Ethereum IDE Contracts — Solidity 0.6.2 Untitled — Edited

1 GWei = 10^{-9} Ethers

gasCost(GWei) = Gas Unit * Gas Price;

Smart Contract is compiled and converted into assembly instruction. Each instruction in assembly has some designated gas unit. You also set your gas price, lower gas price will make transaction slow.

```
//private internal external public
function getMessage() public view returns (string memory){
    return welComeMessage;
}

function getSum() public pure returns (uint) {
    return 2 + 2;
}

function getSum(uint num1, uint num2) public pure returns (uint) {
    return num1 + num2;
}

function setMessage(string memory _msg) public {
    welComeMessage = _msg;
}
```

setMessage

Deployed Contracts

FIRSTCONTRACT AT 0xF

Low level interactions

Overview Q&A Notes Announcements Reviews Learning tools

Student feedback

4.9

5 stars 71%
4 stars 25%
3 stars 0%

Your progress Share

Course content

- 19. Require, Revert, Assert 5min
- 20. Global Variables 7min
- 21. OOPS Containment 7min
- 22. Constructors Revisited 2min
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- 28. Understanding Gas 3min
- 29. Gas Optimisations 3min
- 30. Transactions 5min
- 31. Memory Types Revisited 7min

Section 3: Polling Smart Contract

19°C Smoke

10:42 22-11-2022

Learn Solidity in 2 Hours, Become a Blockchain Developer

Contracts – Solidity 0.6.2 doc | Gas limit unit remix - Google

Remix - Ethereum IDE

https://www.udemy.com/course/learn-solidity-in-2-hours/learn/lecture/31771712#reviews

Your progress Share ...

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- 19. Require, Revert, Assert
- 20. Global Variables
- 21. OOPS Containment
- 22. Constructors Revisited
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- 26. Function Overloading
- 27. Ether Units
- 28. Understanding Gas
- 29. Gas Optimisations
- 30. Transactions
- 31. Memory Types Revisited

DEPLOY & RUN TRANSACTIONS

ENVIRONMENT: JavaScript VM (London)

ACCOUNT: 0x5B3...eddC4 (9!)

GAS LIMIT: 3000000

VALUE: 0 Wei

CONTRACT: FirstContract - contracts/FirstContract.sol

string private welComeMessage;
bytes private ownerDP;

constructor() {
 welComeMessage = "Hello World";
}
//private internal external public
function getMessage() public view returns (string memory){
 return welComeMessage;
}

function getSum() public pure returns (uint) {
 return 2 + 2;
}

function getSum(uint num1, uint num2) public pure returns (uint) {
 return num1 + num2;
}

function setMessage(string memory _msg) public {
 welComeMessage = _msg;
}

Play

1.25x 2:25 / 2:47

Overview Q&A Notes Announcements Reviews Learning tools

Student feedback

4.9

5 stars 71%
4 stars 25%
3 stars 0%

19°C Smoke

Search

10:44 22-11-2022

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Remix - Ethereum IDE Contracts - Solidity 0.6.2 doc Gas limit unit remix - Google

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Your progress Share ...

Course content

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- 20. Global Variables
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Section 3: Polling Smart Contract

0 / 3 | 34min

19°C Smoke

10:47 22-11-2022

DEPLOY & RUN TRANSACTIONS

ENVIRONMENT

JavaScript VM (London)

VM

ACCOUNT

0x5B3...eddC4 (9!)

GAS LIMIT

3000000

VALUE

0 Wei

CONTRACT

FirstContract - contracts/FirstContract.sol

// SPDX-License-Identifier: GPL-3.0
pragma solidity ^0.8.4;

//TIPS FOR GAS OPTIMISATION
//1. Minimise the data on blockchain.
//2. Use deployed libraries for shared functionality.
//3. Produce optimised Byte Code by solidity compiler.
//4. Avoid calculation wherever needed.
//5. Avoid copying to memory directly update the value in storage.
//6. Avoid increase in Loops count overtime.

contract FirstContract {
 //State ~ Storage
 //private internal public
 string private welComeMessage;
 bytes private ownerDP;

 constructor() {
 welComeMessage = "Hello World";
 }
 //private internal external public

Play

1.25x 2:55 / 2:59

Overview Q&A Notes Announcements Reviews Learning tools

Student feedback

4.9

5 stars 71%
4 stars 25%
3 stars 0%

Search

19°C Smoke

ENG IN

10:47 22-11-2022

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Course content

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- 31. Memory Types Revisited

Section 3: Polling Smart Contract

0 / 3 | 34min

Student feedback

4.9

5 stars: 71%
4 stars: 25%
3 stars: 0%

LOW BATTERY
Your Mac will sleep soon unless plugged into a power outlet.

Deploy & Run Transactions

FirstContract.sol

```
import "hardhat/console.sol";  
  
contract Transaction {  
    //Getting money in smart Contract  
    function getMoney() external payable {  
        console.log('Amount Recieved: ', address(this).balance);  
    }  
  
    //Transfer money from contract to other user  
    function transferMoneyTo(address payable recipient) external {  
        recipient.transfer(address(this).balance);  
    }  
}
```

Deployed Contracts

TRANSACTION AT 0X41:

receiveMoney!

transferTo 0x4B20993E

Low level interactions

CALDATA

Transact

1.25x 2:19 / 4:34

Search with transaction hash or address

Overview Q&A Notes Announcements Reviews Learning tools

19°C Smoke

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10:50 22-11-2022

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Course content

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- 25. Function Modifiers
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- 30. Transactions
- 31. Memory Types Revisited

Section 3: Polling Smart Contract

0 / 3 | 34min

LOW BATTERY Your Mac will sleep soon unless plugged into a power outlet.

DEPLOY & RUN TRANSACTIONS

GAS LIMIT: 3000000

VALUE: 5 Wei

CONTRACT: Transaction - contracts/Tran

Deploy

Publish to IPFS

OR

At Address Load contract from

Transactions recorded: 26

Student feedback

4.9

5 stars: 71%
4 stars: 25%
3 stars: 0%

19°C Smoke

Search

10:51 22-11-2022

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LOW BATTERY 1m ago
Your Mac will sleep soon unless plugged into a power outlet.

Course content

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- 21. OOPS Containment
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- 26. Function Overloading
- 27. Ether Units
- 28. Understanding Gas
- 29. Gas Optimisations
- 30. Transactions
- 31. Memory Types Revisited

Section 3: Polling Smart Contract

0 / 3 | 34min

19°C Smoke

4.9

Student feedback

5 stars 71%
4 stars 25%
3 stars 0%

1.25x 3:17 / 4:34 Transact

Play

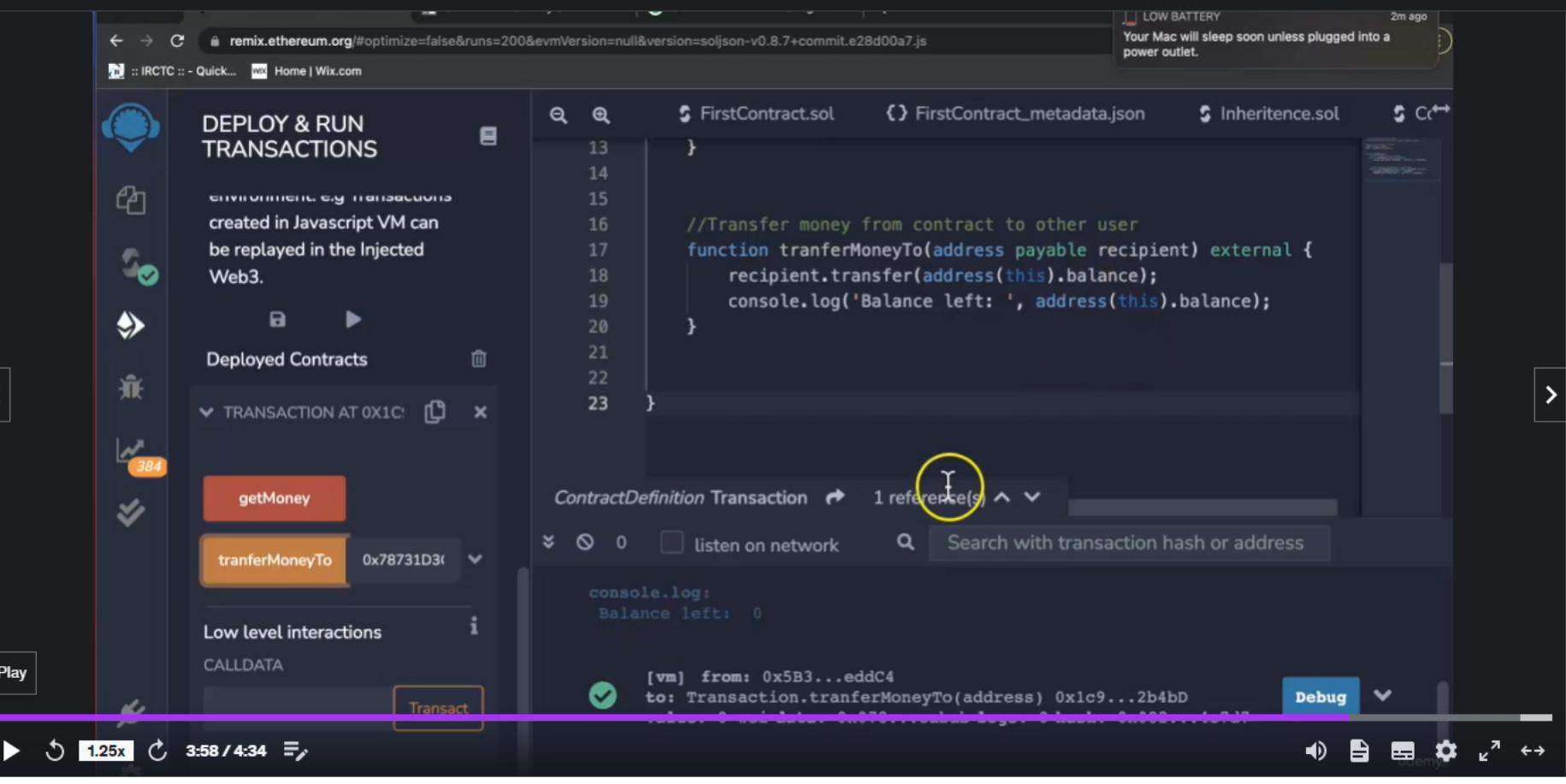
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10:51 22-11-2022

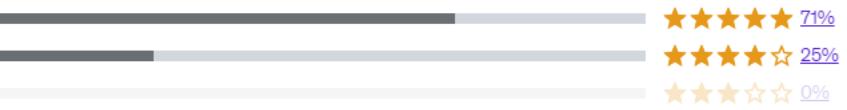
 udemy

Learn Solidity in 2 Hours, Become a Blockchain Developer



Student feedback

4.9



Course content

- 19. Require, Revert, Assert
🕒 5min
 - 20. Global Variables
🕒 7min
 - 21. OOPS Containment
🕒 7min
 - 22. Constructors Revisited
🕒 2min
 - 23. OOPS Inheritance
🕒 7min
 - 24. OOPS Abstract Contracts
🕒 3min
 - 25. Function Modifiers
🕒 5min
 - 26. Function Overloading
🕒 2min
 - 27. Ether Units
🕒 1min
 - 28. Understanding Gas
🕒 3min
 - 29. Gas Optimisations
🕒 3min
 - 30. Transactions
🕒 5min
 - 31. Memory Types Revisited
🕒 7min

Section 3: Polling Smart Contract

/3 | 34min

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Section 3: Polling Smart Contract

0 / 3 | 34min

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10:54 22-11-2022

4.9

Student feedback

5 stars 71%
4 stars 25%
3 stars 0%

DEPLOY & RUN TRANSACTIONS

Transactions recorded 0

All transactions (deployed contracts and function executions) in this environment can be saved and replayed in another environment. e.g Transactions created in Javascript VM can be replayed in the Injected Web3.

Contracts

Currently you have no contract instances to interact with.

1.25x 0:45 / 6:39

Inheritance.sol Containment.sol Transaction.sol Memory.sol

```
// SPDX-License-Identifier: GPL-3.0
pragma solidity ^0.8.4;
import "hardhat/console.sol";

contract Memory {
    //1 Storage: Persisted in Blockchain e.g state variables
    //2 Memory: Temporary Memory location not persisted
    //3 Stack: Local Variable
    //4 CallData: Array coming in as parameter

    struct User {
        string name;
    }
    User[] users;

    constructor() {
        User memory first = User("Abhinav");
        users.push(first);
    }

    function printUserName() external view {
        console.log(users[0].name);
    }
}
```

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Section 3: Polling Smart Contract

0 / 3 | 34min

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10:57 22-11-2022

1.25x 2:20 / 6:39

4.9

Student feedback

5 stars 71%
4 stars 25%
3 stars 0%

Deploy & Run Transactions

Inheritance.sol

```
// SPDX-License-Identifier: MIT
// CallData: Array coming coming in as parameter
contract User {
    string name;
}
User[] users;

constructor() {
    User memory first = User("Abhinav");
    users.push(first);
}

function printUserName() external view {
    console.log(users[0].name);
}

function demoStorage() external {
    User storage user = users[0];
    user.name = "GunNroses";
}
```

Containment.sol

Transaction.sol

Memory.sol

Transactions recorded 36

All transactions (deployed contracts and function executions) in this environment can be saved and replayed in another environment. e.g Transactions created in Javascript VM can be replayed in the Injected Web3.

Deployed Contracts

MEMORY AT 0XE3C...600

Search

Share

Your progress

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19°C Smoke

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Course content

- 19. Require, Revert, Assert
🕒 5min
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🕒 7min
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🕒 1min
 - 28. Understanding Gas
🕒 3min
 - 29. Gas Optimisations
🕒 3min
 - 30. Transactions
🕒 5min
 - 31. Memory Types Revisited
🕒 7min

Section 3: Building Smart Contracts

/ 3 | 34min

DEPLOY & RUN TRANSACTIONS

Deployed Contracts

MEMORY AT 0xE3C...600

demoCallData uint256[] pa

demoStorage

demoMemory

demoStack

printUserName

Inheritance.sol

```
// SPDX-License-Identifier: MIT
// pragma solidity ^0.8.0;
// // CallData: Array coming coming in as parameter

struct User {
    string name;
}
User[] users;

constructor() {
    User memory first = User("Abhinav");
    users.push(first);
}

function printUserName() external view {
    console.log();
    Abhinav
}
```

CALL [call] from: 0x5B38Da6a701c568545dCfcB03FcB875f56beddC4

Debug

Student feedback

4.9



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https://www.udemy.com/course/learn-solidity-in-2-hours/learn/lecture/31771732#reviews

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Section 3: Polling Smart Contract

0 / 3 | 34min

DEPLOY & RUN TRANSACTIONS

Deployed Contracts

MEMORY AT 0xE3C...600

demoCallData

demoStorage

demoMemory

demoStack

printUserName

Inheritance.sol

Containment.sol

Transaction.sol

Memory.sol

```
function printUserName() external view {
    console.log(users[0].name);
}

function demoStorage() external {
    User storage user = users[0];
    user.name = "GunNroses";
}

function demoMemory() external view {

}

function demoStack() external pure {
```

0 0 listen on network Search with transaction hash or address

console.log: GunNroses

[call] from: 0x5B38Da6a701c568545dCfcB03FcB875f56beddC4

Debug

Play

1.25x 2:49 / 6:39 Transact

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Student feedback

4.9

5 stars 71% 4 stars 25% 3 stars 0%

19°C Smoke

Search

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Section 3: Polling Smart Contract

4.9

21°C Smoke

Search

10:59 22-11-2022

DEPLOY & RUN TRANSACTIONS

MEMORY AT 0X081...A0F

demoCallData

demoStorage

demoMemory

demoStack

printUserName

Inheritance.sol

Containment.sol

Transaction.sol

Memory.sol

function printUserName() external view {
 console.log(users[0].name);
}

function demoStorage() external {
 User storage user = users[0];
 user.name = "GunNroses";
}

function demoMemory() external view {
 User memory user = users[0];
 user.name = "U2";
}

function demoStack() external pure {
 console.log:
 Abhinav
}

0 listen on network Search with transaction hash or address

CALL [call] from: 0x5B38Da6a701c568545dCfcB03FcB875f56beddC4 Debug

1.25x 4:21 / 6:39

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Student feedback

4.9

5 stars 71%
4 stars 25%
3 stars 0%

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Section 3: Polling Smart Contract

0 / 3 | 34min

Student feedback

4.9

5 stars: 71%
4 stars: 25%
3 stars: 0%

Overview Q&A Notes Announcements Reviews Learning tools

DEPLOY & RUN TRANSACTIONS

Inheritance.sol Containment.sol Transaction.sol Memory.sol

```
function demoStack() external pure {
    uint num1 = 5;
    uint num2 = 5;
    num2 = num1 + num2;
}

function demoCallData(uint[] calldata params) external {
}
```

demoCallData uint256[] param

demoStorage

demoMemory

demoStack

printUserName

Low level interactions

CALLDATA

console.log: Abhinav

[call] from: 0x5B38Da6a701c568545dCfcB03FcB875f56beddC4

Debug

1.25x 5:33 / 6:39

21°C Smoke

ENG IN 11:02 22-11-2022