

Day 3 | Batch 1 | LetsUpgrade -

Remix - Ethereum IDE

Blockchain Demo

remix.ethereum.org/#optimize=false&evmVersion=soljson-v0.4.17+commit.bdeb9e52.js

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Freshers My Nauki

LetsUpgrade | Lear...

DEPLOY & RUN TRANSACTIONS

ENVIRONMENT

JavaScript VM

ACCOUNT

0xd33...335f3 (99.999999%)

GAS LIMIT

3000000

VALUE

0

wei

CONTRACT

student - browser/Assignment.sol

Deploy

string newstudentname, strin

PUBLISH TO IPFS

OR

At Address

Load contract from Address

Transactions recorded

Deployed Contracts

STUDENT AT 0x87A...53EB1 (MEMORY)

```

1 pragma solidity >=0.4.17 <=0.7.0;
2
3
4 contract student{
5
6     string public studentname;
7     string public id;
8     string public course;
9     string public location;
10
11     function student(string newstudentname,string newid,string newcourse,string newlocation)public{
12         studentname=newstudentname;
13         id=newid;
14         course=newcourse;
15         location=newlocation;
16     }
17
18     function setDetails(string newstudentname,string newid,string newcourse,string newlocation)public{
19         studentname=newstudentname;
20         id=newid;
21         course=newcourse;
22         location=newlocation;
23     }
24
25     function getDetails() public view returns(string,string,string,string){
26         return(studentname,id,course,location);
27     }
28 }

```

listen on network

Search with transaction hash or address

[vm] from:0xd33...335f3 to:student.(constructor) value:0 wei data:0x686...0000 logs:0 hash:0x8c...8954a

Debug

Type here to search

Blockchain: Everything You Need

Blockchain Demo

Hash

Block

Blockchain

Distributed

Tokens

Coinbase

Blockchain

lock: # 1

nonce: 19824

Data:

What is Blockchain?

If this technology is so complex, why call it "blockchain"? At its most basic level, blockchain is literally just a chain of blocks, but not in the traditional sense of those words. When we say the words "block" and "chain" in this context, we are actually talking about digital information (the "block") stored in a public database (the "chain").

Prev: 00

hash: 0000f385efffac061f3790e60a1a641350526ab478da1b2715c55a5d71e79c6

Mine

Block: # 2

Nonce: 52837

Data:

Amazon.com, Inc. (AMZN). Instead of using your actual name, your purchase is recorded without any identifying information using a unique "digital signature," sort of like a username.

Blocks store information that distinguishes them from other blocks. Much like you and I have names to distinguish us from one another, each block stores a unique code called a "hash" that allows us to tell it apart from every other block. Hashes are cryptographic codes created by special algorithms. Let's say you made your splurge purchase on Amazon, but while it's in transit, you decide you just can't resist and need a second one. Even though the details of your new transaction would look nearly identical to your earlier purchase, we can still tell the blocks apart because of their unique codes.

Prev: 0000f385efffac061f3790e60a1a641350526ab478da1b2715c55a5d71e79c6

Hash: 000092a7da0a5b4731ad7c96d4c590ac8b181f3b267880b6f9127045da61504

Mine

Block: # 3

Nonce: 10447

Data:

transactions, so your Amazon purchase will be packaged in the b with other users' transaction information as well.

That transaction must be verified. After making that purchase, you must be verified. With other public records of information, like the Exchange Commission, Wikipedia, or your local library, there's so charge of vetting new data entries. With blockchain, however, tha to a network of computers. When you make your purchase from a network of computers rushes to check that your transaction happens way you said it did. That is, they confirm the details of the purcha the transaction's time, dollar amount, and participants. (More on t happens in a second.)

Prev: 000092a7da0a5b4731ad7c96d4c590ac8b181f3b267880b6f9127045da61504

Hash: 00008ba2e48a7d70d83492ed977f908eae9ecfce20028da8cd11

Mine

Type here to search

Blockchain Demo

Hash

Block

Blockchain

Distributed

Tokens

Coinbase

1653

25-07-2020