

Assignment Day 3
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1) Experiment with Anders Blockchain.

Blockchain Demo

HashBlockBlockchainDistributedTokensCoinbase

SHA256 Hash

Data:

hello
Blockchain
course

Hash:

f452d3080ccac578e29eb09cf9bf7b659d8c3ee36655ea6448ea304302b1b6e9

Blockchain Demo

HashBlockBlockchainDistributedTokensCoinbase

Block

Block:

#1

Nonce:

72608

Data:

hi
blockchain
course

Hash:

2b1949ee3c967ac77b01c7565967dda2fb19fb74e912a838f9eb12e17af7ed2f

Mine

Block

Block:

#

1

Nonce:

197348

Data:

hi

blockchain

course

Hash:

0000b1c0a619b5fa7badceca1c84659757b9e4bd495d30ae39ba9cb55fe98f60

Mine

Blockstart

Block:

#

1

Nonce:

27719

Data:

hi
blockchain
course

Prev:

00000000000000000000000000000000

Hash:

0000694152a1ea42e31fd0b21cc4

Mine

Block:

#

2

Nonce:

61484

Data:

Prev:

0000694152a1ea42e31fd0b21cc4

Hash:

0000ae6d6615d950aabl3af0165

Mine

Block:	#	3
Nonce:	5768	
Data:	<div></div>	
Prev:	0000ae6d6615d950aa	
Hash:	00002812aafdfeb67	
<div>Mine</div>		

[illegible][illegible]

2) Make a sample contract on [remix.Ethereum.org](https://remix.ethereum.org) and publish it in your GitHub.

The screenshot displays the Remix Ethereum IDE interface. The left sidebar contains the 'DEPLOY & RUN TRANSACTIONS' panel, which includes fields for 'ENVIRONMENT' (JavaScript VM), 'ACCOUNT' (0xD03...e5ad1), 'GAS LIMIT' (3000000), 'VALUE' (0 wei), and 'CONTRACT' (Land - browser/Assignment day 3.sc). A 'Deploy' button is visible. Below this, there are options to 'PUBLISH TO IPFS' or 'At Address'. The main editor area shows a Solidity contract named 'Land' with the following code:

```
1 pragma solidity ^0.4.17 <0.7.0>;
2
3 contract Land{
4     string public owner;
5     string public documents;
6     string public value;
7     string public area;
8     string public location;
9
10
11 function land(string newOwner, string newDocuments, string newValue, string newArea, string newLocation)public{
12     owner=newOwner;
13     documents=newDocuments;
14     value=newValue;
15     area=newArea;
16     location=newLocation;
17 }
18
19
20 function setDetail(string newOwner, string newDocuments, string newValue, string newArea, string newLocation)public{
21     owner=newOwner;
22     documents=newDocuments;
23     value=newValue;
24     area=newArea;
25     location=newLocation;
26 }
27
28
29
30 function getDetail() public view returns(string, string, string, string, string){
31     return (owner, documents, value, area, location);
32 }
33 }
```

The bottom status bar shows a green checkmark and the text '[vm] from:0xd03...e5ad1 to:Land.(constructor) value:0 wei data:0x608...70029 logs:0 hash:0xcb2...99e55'. A 'Debug' button is also present.