

## Day 3 Assignment

- Experiment with Anders Blockchain.

Blockchain Demo

Remix - Ethereum IDE

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🔒 https://andersbrownworth.com/blockchain/blockchain

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Blockchain Demo

Hash Block Blockchain Distributed Tokens Coinbase

# Blockchain

Block: # 1

Nonce: 11295

Data: LetsUpgrade's Blockchain Essential Assignment Day 3

Prev: 00

Hash: 0000b872fe8cf17d76c9977331ed579709249bfi

Mine

Block: # 2

Nonce: 24423

Data:

Prev: 0000b872fe8cf17d76c9977331ed579709249bfi

Hash: 0000af647a1e93e9930b8ed84ee5328297bf3ad6

Mine

Block: # 3

Nonce: 131987

Data:

Prev: 0000af647a1e93e9930b8ed84ee5328297bf3ad6

Hash: 0000cd4462713dd6b98281f53d

Mine

- Smart Contract using remix.ethereum.org

The screenshot displays the Remix IDE interface. The top browser bar shows the URL `remix.ethereum.org/#optimize=false&evmVersion=null&version=` with a zoom level of 80%. The left sidebar contains the 'SOLIDITY COMPILER' panel with settings for compiler (0.4.21+commit.dfe3193c), language (Solidity), and EVM version (compiler default). It also includes checkboxes for 'Auto compile', 'Enable optimization', and 'Hide warnings', along with a 'Compile Land Contract.sol' button. Below the compiler panel is the 'CONTRACT' panel showing 'LandRecord (Land Contract.sol)' and buttons for 'Publish on Swarm', 'Publish on Ipfs', and 'Compilation Details'. The main editor area displays the Solidity code for the 'LandRecord' contract, which includes variables for owner, value, location, area, and legalId, and functions for setting and getting land details. The bottom panel shows the transaction details for the deployment, including the transaction hash, contract address, from address, to address (LandRecord.(constructor) (Contract Creation - Step 0)), gas used (3000000), and transaction cost (295749 gas).

**SOLIDITY COMPILER**

COMPILER

0.4.21+commit.dfe3193c

☐ Include nightly builds

LANGUAGE

Solidity

EVM VERSION

compiler default

COMPILER CONFIGURATION

☒ Auto compile

☐ Enable optimization

☐ Hide warnings

Compile Land Contract.sol

CONTRACT

LandRecord (Land Contract.sol)

Publish on Swarm

Publish on Ipfs

Compilation Details

ABI Bytecode

**Land Contract.sol**

```

1 pragma solidity ^0.4.17 < 0.6.12;
2
3 contract LandRecord{
4
5     string public owner;
6     uint public value;
7     string public location;
8     string public area;
9     string public legalId;
10
11     function LandRecord(string newOwner, uint newValue, string newLocation, string newArea, string newLegalId ) public{
12
13         owner = newOwner;
14         value = newValue;
15         location = newLocation;
16         area = newArea;
17         legalId = newLegalId;
18     }
19
20     function setLandNewDetails(string newOwner, uint newValue) public{
21
22         owner = newOwner;
23         value = newValue;
24     }
25
26     function getLandCurrentDetails() public view returns (string,uint,string,string,string) {
27         return(owner, value, location, area, legalId);
28     }
29
30 }
31
32

```

listen on network Search with transaction hash or address

transaction hash	0x247aceb78d8080978e538d2221a983284992b554a495c15850ed10b1cf028801
contract address	0x93fa519d1265faf233e32d2e613615e8ec1b567d
from	0x4d9f39aeded33f5ba8750776424230c80b8e08df
to	LandRecord.(constructor) (Contract Creation - Step 0)
gas	3000000 gas
transaction cost	295749 gas