Report for Week 9:

Qn. 1X 
O teaching/g_Exerclses.md X 
Ethereum Smart Contract X 
Ethereum (ETH) Blockche 
Extension (MetaMask) moz-extension://a8ca 1 bSb-7S62-44b0-9626-8288b7S208ef/home.html# 
x 
Google 
metamask create coin - 
X 
MetaMask 
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Getting Started 
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Others 
BETA 
METAMASK 
t Links G 
Software Download 
O ETH 
$0.00 USD 
Angular2 Most Visited @ 
Main Ethereum Network v 
DEPOSIT 
SEND 
Account 1 
DETAILS 
OX998E...OC84 
O ETH 
$0.00 USD 
Dont see your tokens? 
Click on Add Token to add them to 
your account 
ADD TOKEN 
History 
You have no transactions 

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Ethereum Accounts, Add X 
A Step-By Step Guide T c X MetaMask 
@ https://ropsten.etherscan.io 
X Test Ether Faucet 
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Getting Started 
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Others 
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Angular2 Most Visited 
Google 
Home 
Transaction oxlf9fd6a28cd430cb6edc721 c07S108e49ece6f0772636cf7b7483e3fff73a9b7 D 
Overview 
Transaction Information O O 
[ This is a Ropstan Testnet Transaction Only ] 
Transactions 
Tools & Utilities 
Tx Info 
TxHash: 
TxReceipt Status: 
Block Height: 
TimeStamp: 
From: 
Value: 
Gas Limit: 
Gas Used ay Transaction: 
Gas Price: 
Actual Tx Cost/Fee: 
Nonce & {Position}: 
Input Data: 
Oxlf9fd6a28cd430cb6adc721c076108849ece6f0772636cf7b7483a3ff73a9b7 
Success 
4380477 (9 Block Confirmations) 
1 min ago (Nov-07-2018 AM *UTC) 
Ox81b7e08f65bdf5648606c89998agcc8164397647 
1 Ether ($0.00) 
21000 
21000 
0.000000001 Ether (1 Gwei) 
0.000021 Ether (50.000000) 
16783333 {139} 
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Qn. 2

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,ethersca n.io 
/address/OxDE314dfl A5241 D38E9603d7Ub8A 186E0543521 E 
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Language 
MISC 
HOME 
To 
BLOCKCHAIN 
Address OxDE314df1AS241 D38E9603d784b8A186EOS43521E D 
Overview 
Balance: 
Transactions: 
Transactions 
Latest 2 txns 
TxHash 
Ox336ce8%2b5bdgc.. 
Oxee35bdOd73a6922.. 
0.999838187 Ether 
2 txns 
Block 
4052237 
4051680 
Age 
60 days 21 hrs ago 
60 days 23 hrs ago 
From 
Oxde314df1a6241d3__ 
Ox687422eea2cb73b.. 
Contract Creation 
Oxde314df1a6241d3__. 
TOKEN 
Home 
Value 
O Ether 
1 Ether 
Accounts ; Address 
More Options 
01001e1813 
o '00021 
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Account Balance =0**.**999838187 Ether

When was last transaction performed?

(Sep-17-2018 03:37:33 AM +UTC)

 From <[*https://ropsten.etherscan.io/tx/0xee35bd0d73a692213cd2833807e71c1c1bba5561e729a14d32828376a63ae2a7*](https://ropsten.etherscan.io/tx/0xee35bd0d73a692213cd2833807e71c1c1bba5561e729a14d32828376a63ae2a7)>

O teaching/g_Exercisec X 
Ropsten Accounts, X Content— 2018 IST D X 
Solidity tutorial: buil X 
What OPCODES are X Ropsten Transaction X 
Ethereum 8yteCodeX Why does etherscan X 
@ https://ropsten.etherscan.io/address/0xcS661d0fe38ea4e413cf9348b6e46bb86d4a9b3S#code 
reverse engineer byte code 
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Home 
contract OxcS661dOfE38ea4e413cf9348B6e46bB86D4a9335 D 
Contract Overview 
Accounts ; Address 
More Options 
Misc: 
Contract Creator: 
Balance: 
Transactions: 
Transactions 
O Ether 
1 txn 
Oxde314df1a5241d3.. 
at txn Ox336ce8%2b5bdgc.. 
Code 
Events 
O Are you the Contract Creator? Verify And Your Contract Source Code Today! 
Switch Back To aytecodes View Find Similiar Contracts 
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MSTORE 
PUSHI axø4 
CALLDATASIZE 
PUSH2 axøø41 
Jumpi 
PUSHI axøø 
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PLISH2g axel 
swAP1 
PLISH4 
DUPI 
PUSH4 exce6d41de 
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Smart contract created. Push 0x80, 0x40 into the stack, allocate 0x80 of memory space and move to the 0x40 position.

So in this case, this chain is storing 16\*8 = 128 bytes of memory and moving the pointer to the beginning of the 64th byte. We now have 64 bytes for scratch space and 64 bytes for temporary memory storage.

This entire string of opcode contains 0 Ether, meaning that only the gas price was paid for this transaction to be confirmed. This is to store the data encoded in byte form

0x48656c6c6f2066726f6d206120736d61727420636f6e74726163740000000000

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@ https://codebeautify'.org/hex-string-converter 
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Best Hex to Strim 
reverse engineer byte code 
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NTLM Hash Generator 
Password Generator 
Random Words Generator 
Text Minitier 
String Builder 
Reverse String 
Text Reverser 
HTML Encode 
HTML Decode 
Base64 Encode 
Base64 Decode 
URL Encode 
URL Decode 
String to Hex Converter 
Hex to String Converter 
String to Binary Converter 
Binary to String Converter 
Case Converter 
Delimited Text Extractor 
Remove Accents 
Remove Duplicate Lines 
Remove Empty Lines 
Remove Line Breaks 
Remove Extra Spaces 
Remove Lines Containing 
Sort Text Lines 
JSON FormatterlMy Ipl Searchl Recent Links I 
Sample I 
Sign in I 
Save & Share 
Hex to String (Hex to Text)f 
Enter the hexadecimal text to decode 
48656t6c6t2066726t6d206120736661727420636t6Ü4726163740000000000 
Convert 
The decoded string: 
Hello trom a smart 
Load 
Browse 
String to Hex Converter 
get sample 
_Jl-Jnper 
NETWORKS 
TOO MUCH 
FAITH? 
37% of ASEAN organizations 
rely entirely on their CSP 
for security 
Get the new 
Ovum Infographic 

Yeah.

Qn. 3:

Since its programming based rather than a value storage, the contract will need a function that presents the signatures required to verify the contract. Afterwards, there is an online machine that gathers all the signatures and send off the transaction with these signatures