Block Chain 16 hour free course

1**.Faucet:** It is an application that gives us free test tokens, like free test rinkeby Etherum.(faucet.rinkeby.io)

2.Meta Mask

3.Rinkeby

4.Rinkeby Ether scan

5.Block Explorer: An application that allows us to “view “ transactions that happen on block chain.

6. Gas is computational measure. The more computation a transaction use the more ‘gas’ you have to pay. The amount of gas used and how much you pay depends on how much computationally expensive your transaction is. Ex. Sending ETH to 1 address is cheaper than sending ETH to 100 address.

7.Gas: measure of computation use

Gas price: how much it cost per unit of gas

Gas Limit: Max amount of Gas in a transaction

Transaction Fee: Gas Used X Gas Price

8.ethgasstation.info

9. https://andersbrownworth.com/blockchain

10.Keccak256

11.Genesis block : First block of the block chain

12.Mining : The process of finding the “solution” to the block chain “problem”

Block: A list of transactions mined together

Nonce: A number used once “to find the solution” to the blockchain problem an sometimes used to define the transaction number for an account/address

13.Elliptic Curve Digital Signature Algorithm

14.Consensus is the mechanism used to agree on the state of a blockchain.

a.Chain Selection

b.Sybil Resistance(algorithm)

15. <https://docs.soliditylang.org/en/v0.8.9/>

16. <https://remix.ethereum.org/#optimize=false&runs=200&evmVersion=null&version=soljson-v0.6.0+commit.26b70077.js>

17.Function have to be specified as external , internal, public, private for variable external is not possible;

18.view,pure function doesn’t make transaction

19.SPDX:License-Identifier: MIT;

20.Injected web 3 VM for live net

21. Solidity supports three types of variables.

* **State Variables** − Variables whose values are permanently stored in a contract storage.
* **Local Variables** − Variables whose values are present till function is executing.
* **Global Variables** − Special variables exists in the global namespace used to get information about the blockchain.