

## ASSIGNMENT

|              |                        |
|--------------|------------------------|
| Name         | NIVETHA.P              |
| Team ID      | NM2023TMID01749        |
| Project Name | Agriculture Docs Chain |
| Date         | 30 OCTOBER 2023        |

The screenshot displays the Remix Ethereum IDE interface. The top bar shows the URL: `remix.ethereum.org/#lang=en&optimize=false&runs=200&evmVersion=null&version=soljson-v0.8.18+commit.07f61d96.js`. The left sidebar contains the 'DEPLOY & RUN TRANSACTIONS' panel, which includes an 'ENVIRONMENT' dropdown set to 'Remix VM (Shanghai)', an 'ACCOUNT' dropdown showing '0x5B3...eddC4 (99.9999999%)', a 'GAS LIMIT' of '3000000', and a 'VALUE' of '0 Wei'. The 'CONTRACT' dropdown is set to 'NameValueStorage - Nivetha.p.sol'. Below these are buttons for 'Deploy' and 'Publish to IPFS', and a section for 'Transactions recorded' and 'Deployed Contracts'. The main editor area shows the Solidity code for the 'NameValueStorage' contract:

```
1 // SPDX-License-Identifier:MIT
2 pragma solidity ^0.8.0;
3
4 contract NameValueStorage {
5     string public nameValue;
6
7     function setName(string memory newName) public {
8         nameValue = newName;
9     }
10
11     function getName() public view returns (string memory) {
12         return nameValue;
13     }
14 }
```

The bottom panel shows the transaction details for the deployment:

- status: true Transaction mined and execution succeed
- transaction hash: 0x0cf182495328386272576900277fa9ec1b1fe5c4dee1340bccc89e2609b09
- block hash: 0x3e28c76dc3f952b91f0aef68b53994631445cc58b198b16ba02853c716cad
- block number: 1

A 'Debug' button is visible in the bottom right corner of the transaction details panel.

remix.ethereum.org/#lang=en&optimize=false&runs=200&evmVersion=null&version=soljson-v0.8.18+commit.87f61d96.js

### DEPLOY & RUN TRANSACTIONS

ENVIRONMENT: Remix VM (Shanghai)

ACCOUNT: 0x5B3...eddC4 (99.9999999%)

GAS LIMIT: 3000000

VALUE: 0 Wei

CONTRACT: NameValueStorage - Nivetha p. sol

even version parts

Deploy

☐ Publish to IPFS

At Address: Load contract from Address

Transactions recorded: 1

Deployed Contracts: NAMEVALUESTORAGE AT 0x091...

```
1 // SPDX-License-Identifier:MIT
2 pragma solidity ^0.8.0;
3
4 contract NameValueStorage {
5     string public nameValue;
6
7     function setName(string memory newName) public {
8         nameValue = newName;
9     }
10
11     function getName() public view returns (string memory) {
12         return nameValue;
13     }
14 }
```

listen on all transactions

Search with transaction hash or address

|                  |  |
|------------------|--|
| status           | true Transaction mined and execution succeed                     |
| transaction hash | 0x0f1824993285d627257d880277fa9c1b1fe3cdee1346bccc89e26badd9     |
| block hash       | 0x3e2867dcd1052b93f5a0fe0852084639443c5dd1198b61bbba02d31c716cad |
| block number     | 1  |
| contract address | 0x0145cc1520386f254917e481c044e9943f39138                        |
| from             | 0x5B38da7b1c58545dFfC983Fcd875566d6C4                            |
| to               | NameValueStorage: (constructor)                                  |
| gas              | 517936 gas   |
| transaction cost | 458479 gas   |
| execution cost   | 309095 gas   |
| input            | 0x00...20013   |