

ASSIGNMENT-1

Program:

```
// SPDX-License-Identifier: MIT

pragma solidity ^0.8.0;

contract ZoneNameContract {

    function getZoneName() public pure returns (string memory) {

        return "Zone name";

    }

}
```

ABI:

```
[
  {
    "inputs": [],
    "name": "getZoneName",
    "outputs": [
      {
        "internalType": "string",
        "name": "",
        "type": "string"
      }
    ],
    "stateMutability": "pure",
    "type": "function"
  }
]
```

Bytecode:

[illegible]

Output:

The screenshot shows the Solidity Compiler interface. On the left, the 'COMPILER' section is active, displaying version '0.8.18+commit.L87f61d96'. Below this, there are checkboxes for 'Include nightly builds', 'Auto compile', and 'Hide warnings'. The 'Advanced Configurations' section is also visible. The main area shows the source code for 'ZoneName.sol':

```
1 // SPDX-License-Identifier: MIT
2 pragma solidity ^0.8.0;
3
4 contract ZoneNameContract {
5     function getZoneName() public pure returns (string memory) { infinite gas
6         return "Zone name";
7     }
8 }
9 // JERALD ABISHEK V
```

At the bottom, there are buttons for 'Compile ZoneName.sol', 'Compile and Run script', 'Publish on Ipfs', 'Publish on Swarm', and 'Compilation Details'. The 'ABI' and 'Bytecode' tabs are also present.

The screenshot shows the 'DEPLOY & RUN TRANSACTIONS' interface. On the left, the 'CONTRACT' section is active, displaying 'ZoneNameContract - ZoneName.sol'. Below this, there are buttons for 'Deploy', 'Publish to IPFS', and 'At Address'. The 'Transactions recorded' section shows 2 transactions. The 'Deployed Contracts' section shows the contract 'ZONENAMECONTRACT AT 0XD9' with a balance of 0 ETH. The 'Low level interactions' section shows the 'getZoneName' function being called with the input '0: string: Zone name' and the output '0: string: Zone name'. The 'Transact' button is also visible.

The main area shows the transaction details for the 'getZoneName' function call. The transaction is from '0x58380a6a701c568545dCfc803Fc8875f56beddC4' to 'ZoneNameContract.getZoneName()' with data '0x235...ed70f'. The execution cost is 715 gas. The decoded input is an empty object, and the decoded output is an object with the key '0' and the value 'string: Zone name'. The logs section is also visible.

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