

BLOCKCHAIN TECHNOLOGY ASSIGNMENT

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 displays the Solidity Compiler interface. On the left, the 'COMPILER' section shows version '0.8.18+commit.L8761d96' and options for 'Auto compile' and 'Hide warnings'. The 'CONTRACT' section lists 'ZoneNameContract (ZoneName.sol)' with buttons for 'Publish on Ipfs', 'Publish on Swarm', and 'Compilation Details'. The main editor shows the Solidity 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) {
6         return "Zone name";
7     }
8 }
9
```

Below the code, the 'TRANSACTIONS' section shows a list of transactions. The first transaction is a call from '0x58380a6a781c568545dcfc803fc8875f56bedd0c4' to 'ZoneNameContract.getZoneName()' with data '0x235...ed70f'. The transaction details show an execution cost of 715 gas and a decoded output of '0: "string: Zone name"'. A 'Debug' button is visible next to the transaction details.

The screenshot displays the 'DEPLOY & RUN TRANSACTIONS' interface. The 'CONTRACT' section shows 'ZoneNameContract - ZoneName.sol' with a 'Deploy' button and a 'Publish to IPFS' checkbox. The 'Transactions recorded' section shows a list of transactions. The first transaction is a call from '0x58380a6a781c568545dcfc803fc8875f56bedd0c4' to 'ZoneNameContract.getZoneName()' with data '0x235...ed70f'. The transaction details show an execution cost of 715 gas and a decoded output of '0: "string: Zone name"'. A 'Debug' button is visible next to the transaction details.

Submitted By ,

Somesh Kumar ,

311020106049 ,

BE ECE IV Year ,

KCG COLLEGE OF TECHNOLOGY,

KARAPAKKAM , CHENNAI .