

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:

```
608060405234801561001057600080fd5b50610173806100206000396000f3fe6080604052348015610010576  
00080fd5b506004361061002b5760003560e01c8063235ed70f14610030575b600080fd5b61003861004e565b  
604051610045919061011b565b60405180910390f35b60606040518060400160405280600981526020017f5a6  
f6e65206e616d650000000000000000000000000000000000000000000000000000000815250905090565b600081519050  
919050565b600082825260208201905092915050565b60005b838110156100c5578082015181840152602081  
0190506100aa565b60008484015250505050565b6000601f19601f8301169050919050565b60006100ed82610  
08b565b6100f78185610096565b93506101078185602086016100a7565b610110816100d1565b840191505092  
915050565b6000602082019050818103600083015261013581846100e2565b90509291505056fea2646970667  
358221220d3d743a58da137e00a73e6844dab7d80779238ffd59dd52ea1c33b98e8daa91564736f6c634300081  
20033
```

Output:

The screenshot displays the Solidity Compiler interface. On the left, the 'COMPILER' section shows version '0.8.18+commit.87f61d96' and options for 'Include nightly builds', 'Auto compile', and 'Hide warnings'. Below this, the 'CONTRACT' section shows '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
```

The bottom section shows the 'CALL' details for a transaction from '0x58380a6a701c568545dcfc803fc8875f56beddC4' to 'ZoneNameContract.getZoneName()' with data '0x235...ed70f'. The execution cost is 715 gas. The decoded output is a JSON object: `{ "0": "string: Zone name" }`.

The screenshot displays the 'DEPLOY & RUN TRANSACTIONS' interface. The 'CONTRACT' section shows 'ZoneNameContract - ZoneName.sol' with an 'evm version: paris' and a 'Deploy' button. Below this, the 'Transactions recorded' section shows a list of transactions. The 'Deployed Contracts' section shows 'ZONENAMECONTRACT AT 0XD9' with a 'getZoneName' button. The 'Low level interactions' section shows a 'CALLDATA' field and a 'Transact' button. The main editor shows the same Solidity code as the previous screenshot. The bottom section shows the 'CALL' details for a transaction from '0x58380a6a701c568545dcfc803fc8875f56beddC4' to 'ZoneNameContract.getZoneName()' with data '0x235...ed70f'. The execution cost is 715 gas. The decoded output is a JSON object: `{ "0": "string: Zone name" }`.

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