

BLOCKCHAIN TECHNOLOGY

ASSIGNMENT - 1

Program:

```
// SPDX-License-Identifier: MIT
pragma solidity ^0.8.0;
contract ZoneName {
    function printZoneName() public pure returns (string memory){
        return "Zone Name";
    }
}
```

ABI:

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

Bytecode:

```
608060405234801561001057600080fd5b50610173806100206000396000f3fe60806040523
4801561001057600080fd5b506004361061002b5760003560e01c8063fadfc5c31461003057
5b600080fd5b61003861004e565b604051610045919061011b565b60405180910390f35b60
606040518060400160405280600981526020017f5a6f6e65204e616d650000000000000000
00000000000000000000000000000000000815250905090565b600081519050919050565b60008
2825260208201905092915050565b60005b838110156100c5578082015181840152602081
0190506100aa565b60008484015250505050565b6000601f19601f8301169050919050565b
```

60006100ed8261008b565b6100f78185610096565b93506101078185602086016100a7565b
610110816100d1565b840191505092915050565b600060208201905081810360008301526
1013581846100e2565b90509291505056fea26469706673582212205d172d94e52ed8740e6
06b4d74be6fef5a8ab1cf2405c5a57ff8ee4708400d9764736f6c63430008120033

Output:

The screenshot shows the Solidity Compiler interface. On the left, the 'COMPILER' section is set to '0.8.18+commit.87f61d96'. Below this, there are checkboxes for 'Auto compile' and 'Hide warnings'. The 'Advanced Configurations' section is expanded, showing a 'Compile ZoneName.sol' button and a 'Compile and Run script' button. The 'CONTRACT' section shows 'ZoneName (ZoneName.sol)' selected, with buttons for 'Publish on Ipfs', 'Publish on Swarm', and 'Compilation Details'. The main editor displays the Solidity code for 'ZoneName.sol':

```
1 // SPDX-License-Identifier: MIT
2 pragma solidity ^0.8.0;
3 contract ZoneName {
4     function printZoneName() public pure returns (string memory){
5         return "Zone Name";
6     }
7 }
8 }
```

Below the code editor, there is a search bar for 'Search with transaction hash or address' and a section for 'Type the library name to see available commands.'.

The screenshot shows the 'DEPLOY & RUN TRANSACTIONS' interface. On the left, the 'ACCOUNT' section shows '0x5B3...eddC4 (99.999999%)'. The 'GAS LIMIT' is set to '3000000'. The 'VALUE' is set to '0 Wei'. The 'CONTRACT' section shows 'ZoneName - ZoneName.sol' selected, with a 'Deploy' button and a 'Publish to IPFS' checkbox. Below this, there is an 'At Address' button and a 'Load contract from Address' button. The 'Transactions recorded' section shows '5' transactions. The 'Deployed Contracts' section is empty. The main editor displays the same Solidity code as the previous screenshot. Below the code editor, there is a search bar for 'Search with transaction hash or address' and a section for 'Type the library name to see available commands.'.

status	transaction hash	block hash	block number	contract address	from	to	gas
true Transaction mined and execution succeed	0x5787e9835c2ccaffcbb2d7b80bdc2c9a6d9c6221819e1466958d2868cc4d123	0xdf3907f0c9abc9fbbd228a00dbf3e92dc5b9839ba25b4cfdb09f2c153fbd5e4	2	0xd8b934580fc35a11858c6d73a0e468a2833fa8	0x5B380a6a701c568545dcfcb03fcb875F56beddC4	ZoneName.(constructor)	153064 gas