

# 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  
00000000000000000000000000000000815250905090565b600081519050919050565b60008  
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. Below this, there are buttons for 'Publish on Ipfs', 'Publish on Swarm', and 'Compilation Details'. The main editor area 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 }
```

The bottom of the interface shows 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. Below this, there are buttons for 'Deploy' and 'Publish to IPFS'. The 'At Address' section shows 'Load contract from Address'. The 'Transactions recorded' section shows '5' transactions. The 'Deployed Contracts' section shows 'ZoneName'. The main editor area 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 }
```

The bottom of the interface shows a search bar for 'Search with transaction hash or address' and a section for 'Type the library name to see available commands.'