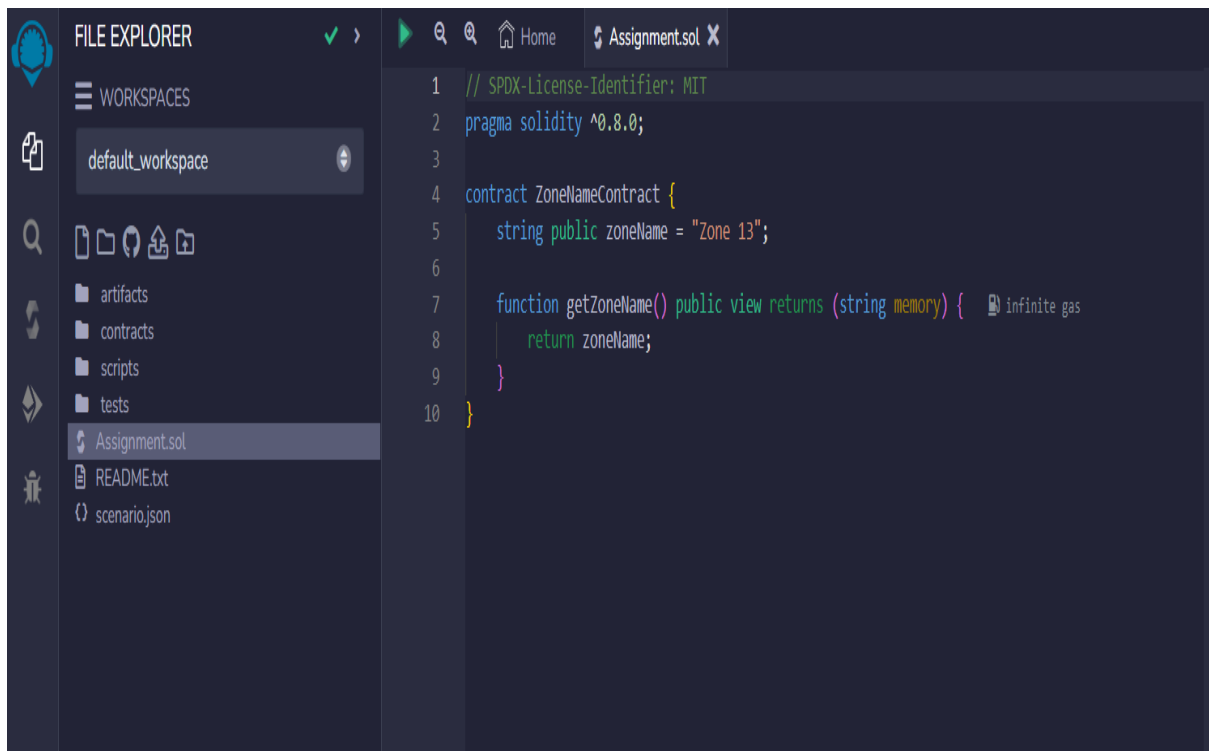


ASSIGNMENT -1

Create a program to return string “ zone name “ in remix platform and save the program and compile it to get the ABI and Bytecode & Deploy it to display the output.

PROGRAM :



The screenshot shows the Remix IDE interface. On the left, the 'FILE EXPLORER' panel displays the project structure with a 'default_workspace' and a file named 'Assignment.sol'. The main editor area shows the following Solidity code:

```
1 // SPDX-License-Identifier: MIT
2 pragma solidity ^0.8.0;
3
4 contract ZoneNameContract {
5     string public zoneName = "Zone 13";
6
7     function getZoneName() public view returns (string memory) { infinite gas
8         return zoneName;
9     }
10 }
```

ABI :

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

```
        "name": "",
        "type": "string"
    },
    "stateMutability": "view",
    "type": "function"
}
]
```

BYTE CODE :

[illegible]

55600182019150602085019450602081019050610326565b8683101
56103685784890151610364601f891682610271565b8355505b6001
600288020188555050505b505050505050565b6102df8061038c6000
396000f3fe608060405234801561001057600080fd5b506004361061
00365760003560e01c8063235ed70f1461003b57806368ce6dfe1461
0059575b600080fd5b610043610077565b604051610050919061022
7565b60405180910390f35b610061610109565b60405161006e9190
610227565b60405180910390f35b606060008054610086906102785
65b80601f01602080910402602001604051908101604052809291908
181526020018280546100b290610278565b80156100ff5780601f106
100d4576101008083540402835291602001916100ff565b820191906
000526020600020905b8154815290600101906020018083116100e2
57829003601f168201915b5050505050905090565b6000805461011
690610278565b80601f0160208091040260200160405190810160405
28092919081815260200182805461014290610278565b801561018f5
780601f106101645761010080835404028352916020019161018f565
b820191906000526020600020905b81548152906001019060200180
831161017257829003601f168201915b505050505081565b6000815
19050919050565b600082825260208201905092915050565b60005b
838110156101d15780820151818401526020810190506101b6565b6
0008484015250505050565b6000601f19601f8301169050919050565
b60006101f982610197565b61020381856101a2565b935061021381
85602086016101b3565b61021c816101dd565b84019150509291505
0565b6000602082019050818103600083015261024181846101ee56
5b905092915050565b7f4e487b710000000000000000000000000000
00000000000000000000000000000000600052602260045260246000fd5
b6000600282049050600182168061029057607f821691505b602082
1081036102a3576102a2610249565b5b5091905056fea26469706673
5822122037e7a829163cc2201e6e3a97f9557e1c329bba72e4b960bd
41b0584480186e3164736f6c63430008120033

DEPLOY & OUTPUT:

The screenshot displays the Remix IDE interface, which is used for developing, deploying, and interacting with smart contracts. The interface is divided into several panels:

- Left Panel (Tools):** Contains icons for various tools like the debugger, console, and settings.
- Top Left Panel (DEPLOY & RUN TRANSACTIONS):** Shows the deployment status (green checkmark) and options for deploying the contract. It includes a "Deploy" button, a checkbox for "Publish to IPFS", and a section for "At Address" with a "Load contract from Address" button.
- Top Right Panel (Code Editor):** Displays the Solidity code for the `ZoneNameContract`. The code is as follows:

```
1 // SPDX-License-Identifier: MIT
2 pragma solidity ^0.8.0;
3
4 contract ZoneNameContract {
5     string public zoneName = "Zone 13";
6
7     function getZoneName() public view returns (string memory) {
8         return zoneName;
9     }
10 }
```
- Bottom Left Panel (Deployed Contracts):** Shows the deployed contract `ZONENAMECONTRACT AT 0XD9`. It displays the balance (0 ETH) and provides buttons for `getZoneName` and `zoneName`. Below these, it shows the output of the `zoneName` function: `0: string: Zone 13`.
- Bottom Right Panel (Transactions):** Shows the transaction history. It includes a search bar and a list of transactions. The first transaction is a successful deployment of the `ZoneNameContract` constructor, with a value of 0 wei and data `0x608...20033`. The second transaction is a call to the `ZoneNameContract.zoneName` function, with data `0x68c...e6dfe`. The transaction details show the execution cost (3423 gas) and the decoded output: `"0": "string: Zone 13"`.