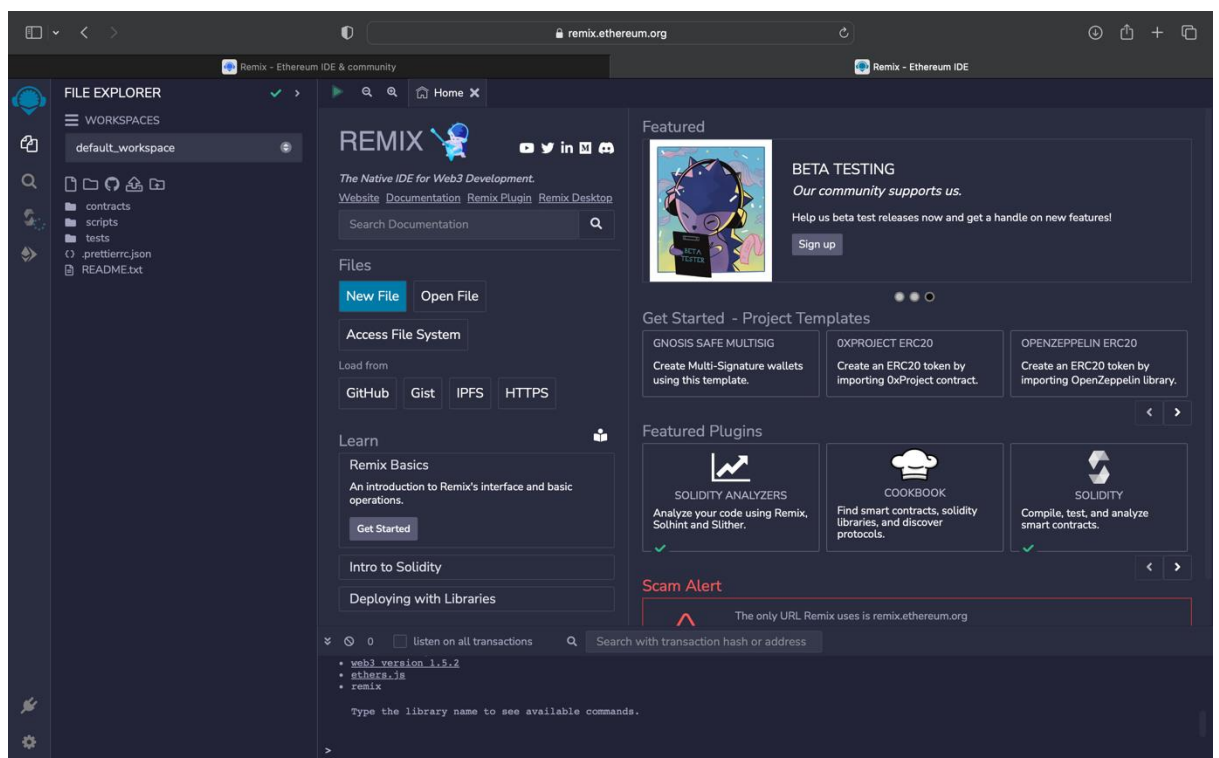


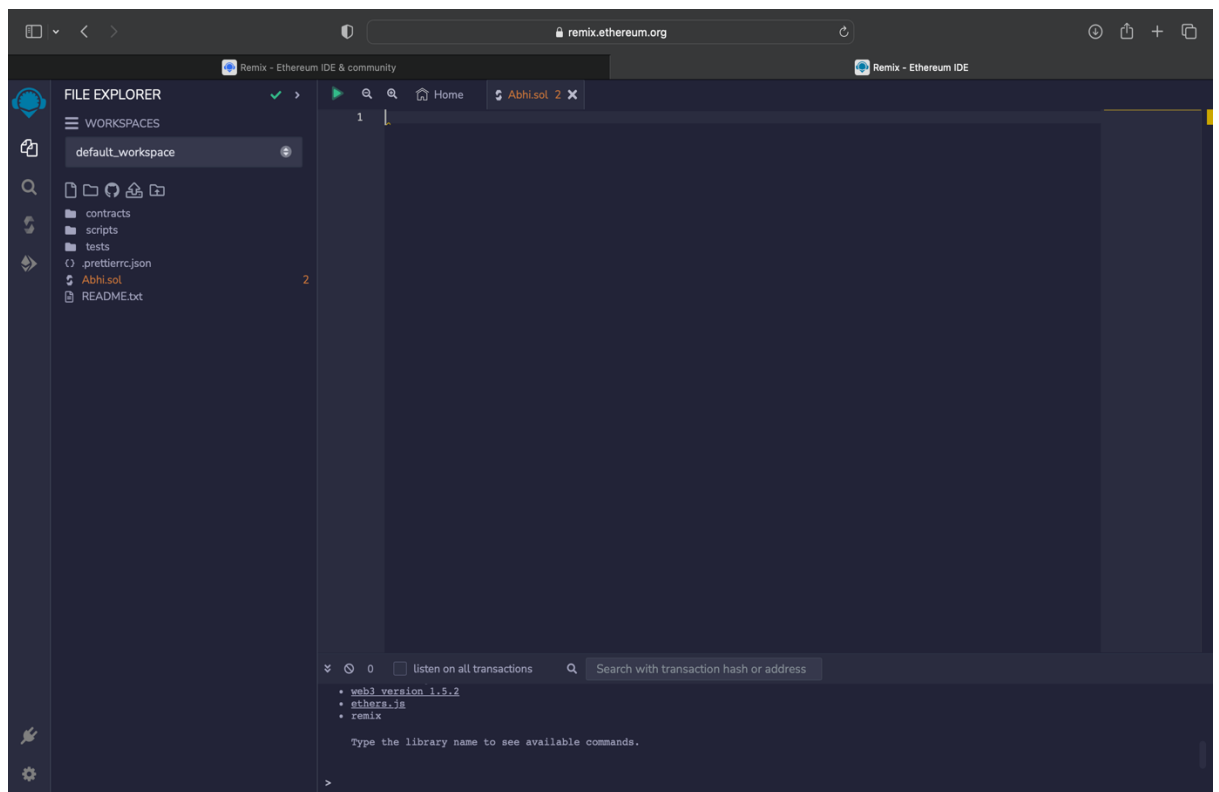
Blockchain Technology

Assignment-01

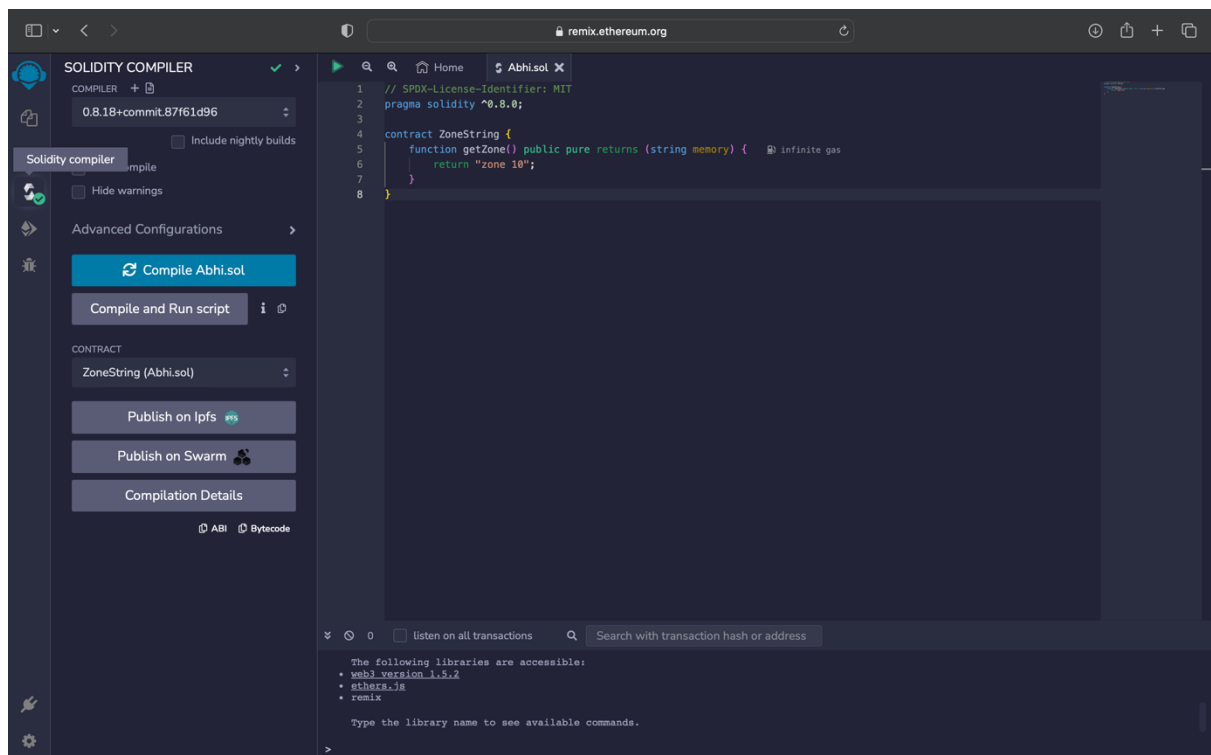
1. Open remix platform



2. Creating a new file



3. Program to return string



4. ABI

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

Byte Code

```
608060405234801561001057600080fd5b50610173806100206000396000f3fe6080604052348015610
01057600080fd5b506004361061002b5760003560e01c8063f9095eb714610030575b600080fd5b6100
3861004e565b604051610045919061011b565b60405180910390f35b60606040518060400160405280
600781526020017f7a6f6e65203130000000000000000000000000000000000000000000000000000081
5250905090565b600081519050919050565b600082825260208201905092915050565b60005b838110
156100c55780820151818401526020810190506100aa565b60008484015250505050565b6000601f19
601f8301169050919050565b60006100ed8261008b565b6100f78185610096565b9350610107818560
2086016100a7565b610110816100d1565b840191505092915050565b60006020820190508181036000
83015261013581846100e2565b90509291505056fea2646970667358221220abbd3d0a7ca512230f59d
63877b99fca3bb809e23fedb22d61ae94112c54febb64736f6c63430008120033
```

5. Deployment

The screenshot displays the Remix IDE interface for deploying a Solidity contract. The left sidebar contains the 'DEPLOY & RUN TRANSACTIONS' panel, which includes fields for the account (0x5B3...eddC4), gas limit (3000000), value (0 Wei), and the contract name 'ZoneString - Abhi.sol'. A 'Deploy' button is visible, along with options for 'Publish to IPFS' and 'At Address'. Below this, the 'Deployed Contracts' section shows the deployed contract 'ZONESTRING AT 0xD91...39138' with a 'getZone' button. The 'Low level interactions' section shows a 'Transact' button.

The main editor area displays the Solidity code for the 'ZoneString' contract:

```
1 // SPDX-License-Identifier: MIT
2 pragma solidity ^0.8.0;
3
4 contract ZoneString {
5     function getZone() public pure returns (string memory) {
6         return "zone 10";
7     }
8 }
```

The bottom panel shows the transaction log with a green checkmark indicating a successful deployment:

```
[vm] from: 0x5B3...eddC4 to: ZoneString.(constructor) value: 0 wei data: 0x608...20033 logs: 0 hash: 0x3d0...2fdbb
```

The status bar at the bottom indicates 'creation of ZoneString pending...'.