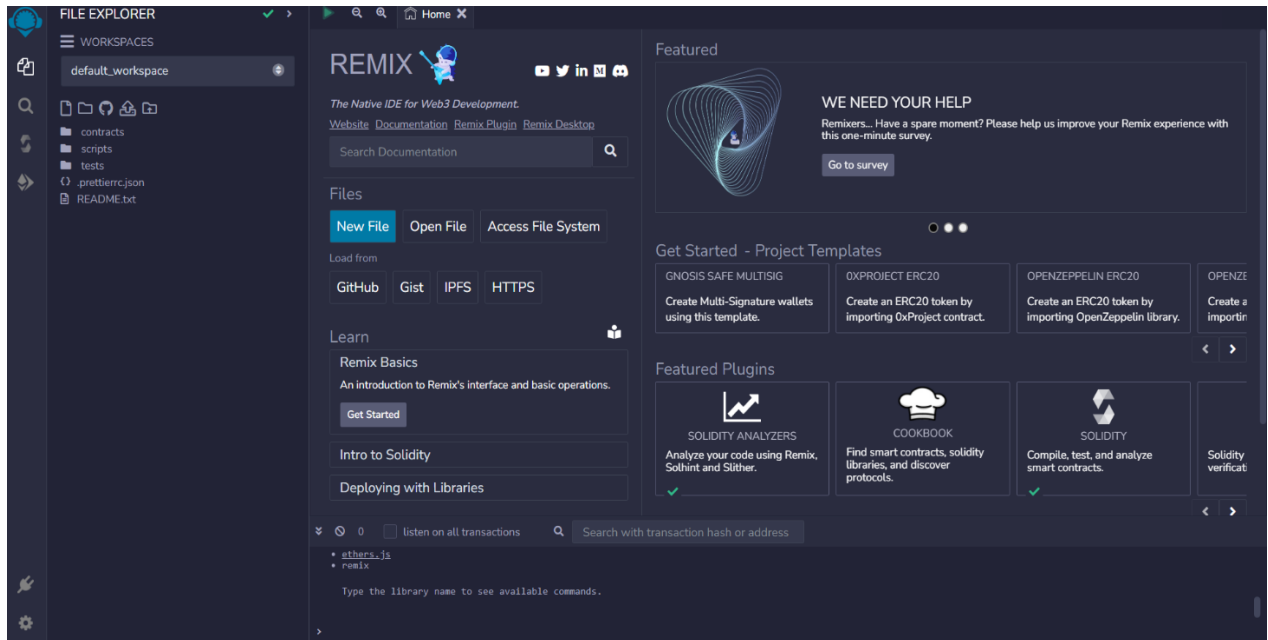
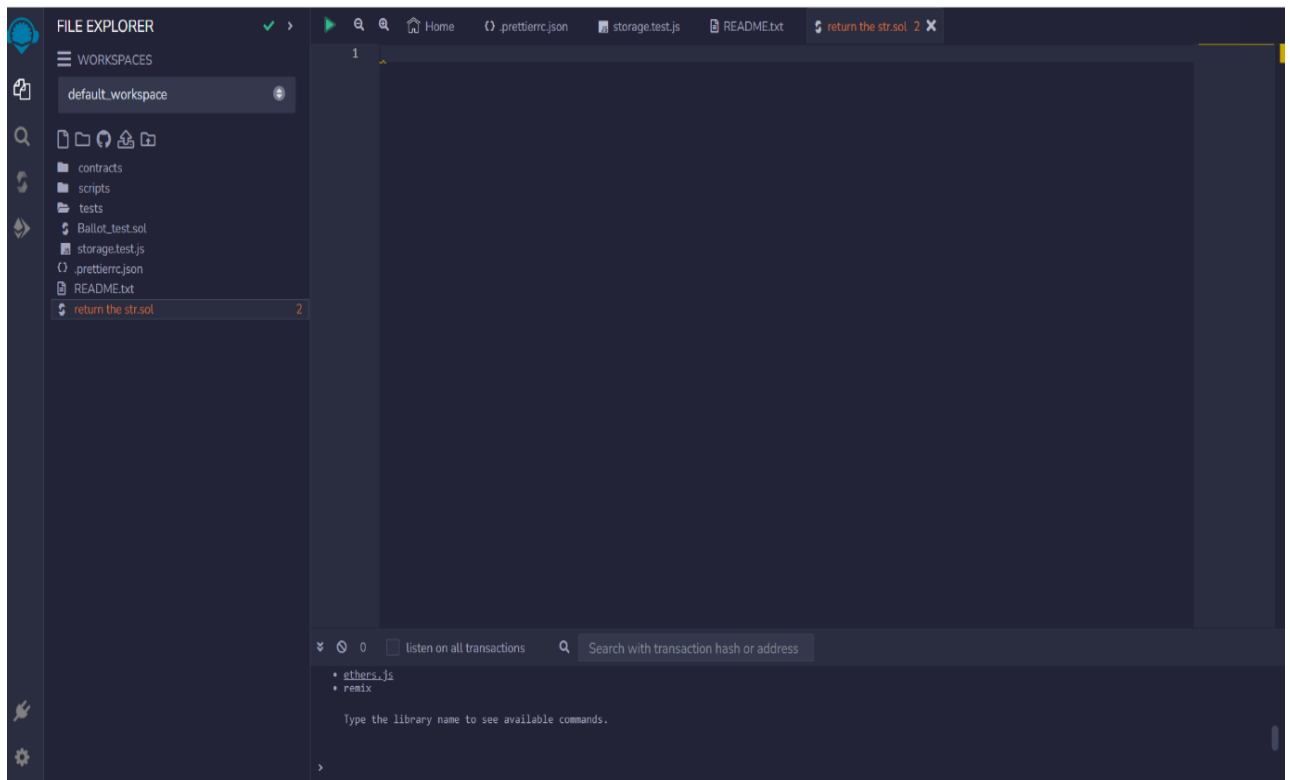


Blockchain Technology Assignment 1

1. Open remix platform



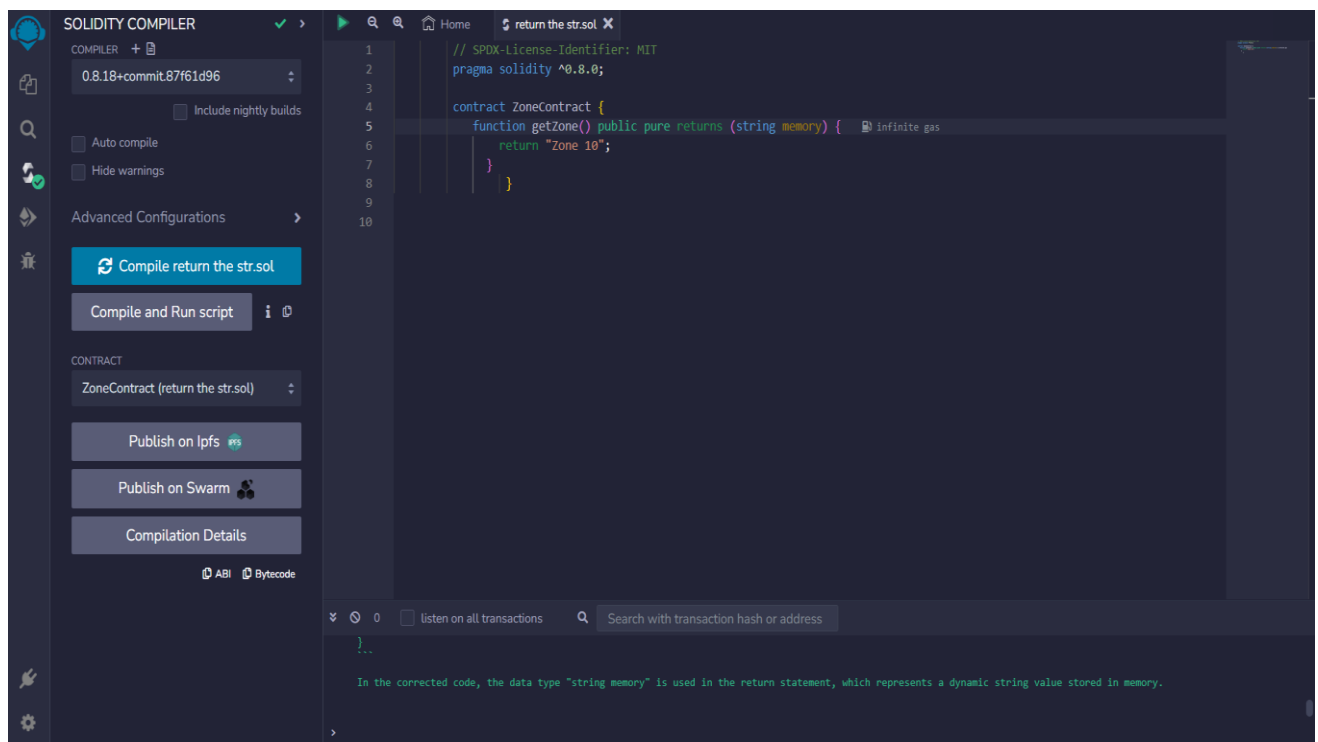
2. Creating a new file



3. Program to return string

Code :

```
// SPDX-License-Identifier: MIT
pragma solidity ^0.8.0;
contract ZoneContract {
    function getZone() public pure returns (string memory) {
        return "Zone 10";
    }
}
```



ABI :

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

Byte code :

```
608060405234801561001057600080fd5b50610173806100206000396000f3fe608060405234
801561001057600080fd5b506004361061002b5760003560e01c8063f9095eb714610030575b
600080fd5b61003861004e565b604051610045919061011b565b60405180910390f35b60606
040518060400160405280600781526020017f7a6f6e6520313000000000000000000000000
00000000000000000000000000000000000815250905090565b600081519050919050565b600082825260
208201905092915050565b60005b838110156100c5578082015181840152602081019050610
0aa565b60008484015250505050565b6000601f19601f8301169050919050565b60006100ed8
261008b565b6100f78185610096565b93506101078185602086016100a7565b610110816100
d1565b840191505092915050565b6000602082019050818103600083015261013581846100e
2565b90509291505056fea2646970667358221220e9da308c6694a0f2bb2cabb3af83ddb2314
805ebb7adaf3f20d81e3d1fb791264736f6c63430008120033
```

4. Deploying : (output screen)

The screenshot displays the Remix IDE interface during the deployment of a Solidity contract. The left sidebar contains the 'DEPLOY & RUN TRANSACTIONS' panel, which shows the 'GAS LIMIT' set to 3000000, the 'VALUE' set to 0 Wei, and the 'CONTRACT' dropdown set to 'ZoneContract - return the str.sol'. The 'Deploy' button is highlighted. Below this, the 'Transactions recorded' section shows a single transaction. The 'Deployed Contracts' section lists 'ZONECONTRACT AT 0xD91...391' with a balance of 0 ETH and a 'getZone' button. The 'Low level interactions' section shows the 'CALLDATA' field and a 'Transact' button. The main editor area displays the Solidity code for 'ZoneContract', which includes a pragma statement for Solidity version ^0.8.0 and a function 'getZone' that returns the string 'Zone 10'. The bottom status bar shows a successful deployment message: '[vm] from: 0x583...edd64 to: ZoneContract.(constructor) value: 0 wei data: 0x608...20033 logs: 0 hash: 0x0f1...54021'.