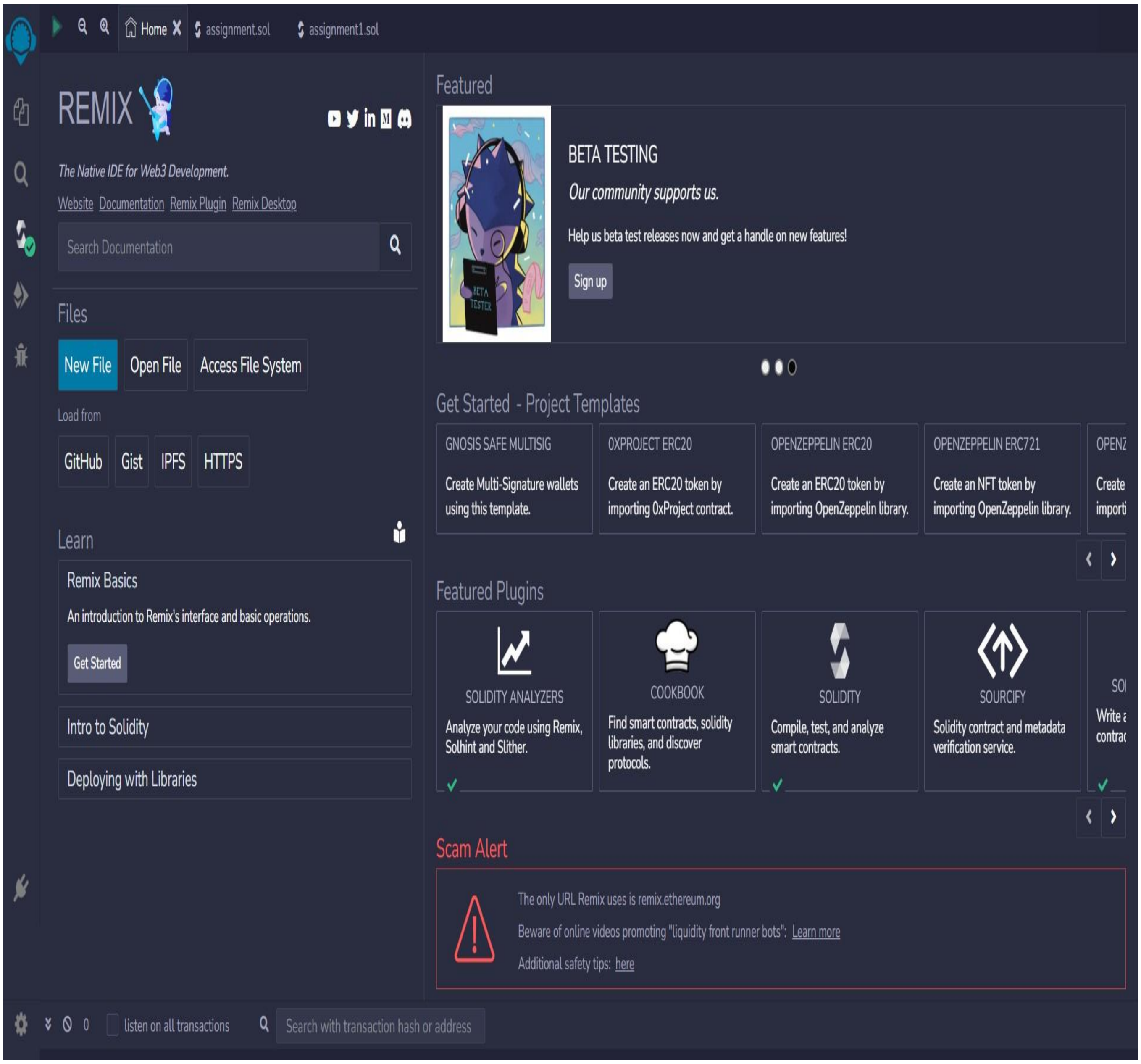
Assignment 1

NAME	SOLAI KUMAR.R https://d.docs.live.net/1517ae46bef44f96/Documents/Vishnu%20venkatesh.R%20assignment.docx
ZONE	**2**
COLLEGE	APOLLO ENGINEERING COLLEGE

1.GO TO THE CHROME ATFORM OPEN REMIXPLARTFORM



The Native IDE for Web3 Development.

Remix Basics

An introduction to Remix's interface and basic operations.

Intro to Solidity

Deploying with Libraries

BETA TESTING

Our community supports us.

Help us beta test releases now and get a handle on new features!

GNOSIS SAFE MULTISIG

Create Multi-Signature wallets using this template.

0XPROJECT ERC20

Create an ERC20 token by importing 0xProject contract.

OPENZEPPELIN ERC20

Create an ERC20 token by importing OpenZeppelin library.

OPENZEPPELIN ERC721

Create an NFT token by importing OpenZeppelin library.

OPENZ

Create

importi

SOLIDITY ANALYZERS

Analyze your code using Remix, Solhint and Slither.

COOKBOOK

Find smart contracts, solidity libraries, and discover protocols.

SOLIDITY

Compile, test, and analyze smart contracts.

SOURCIFY

Solidity contract and metadata verification service.

SO

Write a

contrac

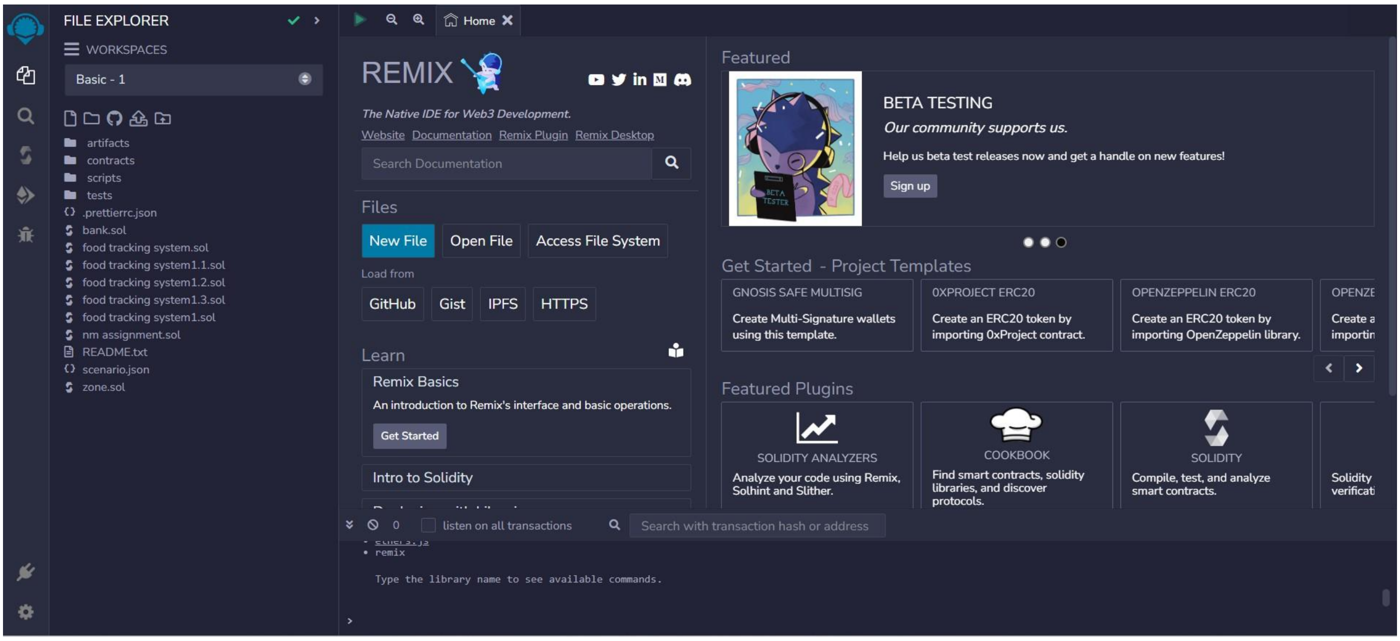
Scam Alert

The only URL Remix uses is remix.ethereum.org

Beware of online videos promoting "liquidity front runner bots": Learn more

Additional safety tips: here

2. OPEN THE REMIX PAGE AND CREATE A NEW FILE



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Create a importin

Analyze your code using Remix, Solhint and Slither.

Find smart contracts, solidity libraries, and discover protocols.

Compile, test, and analyze smart contracts.

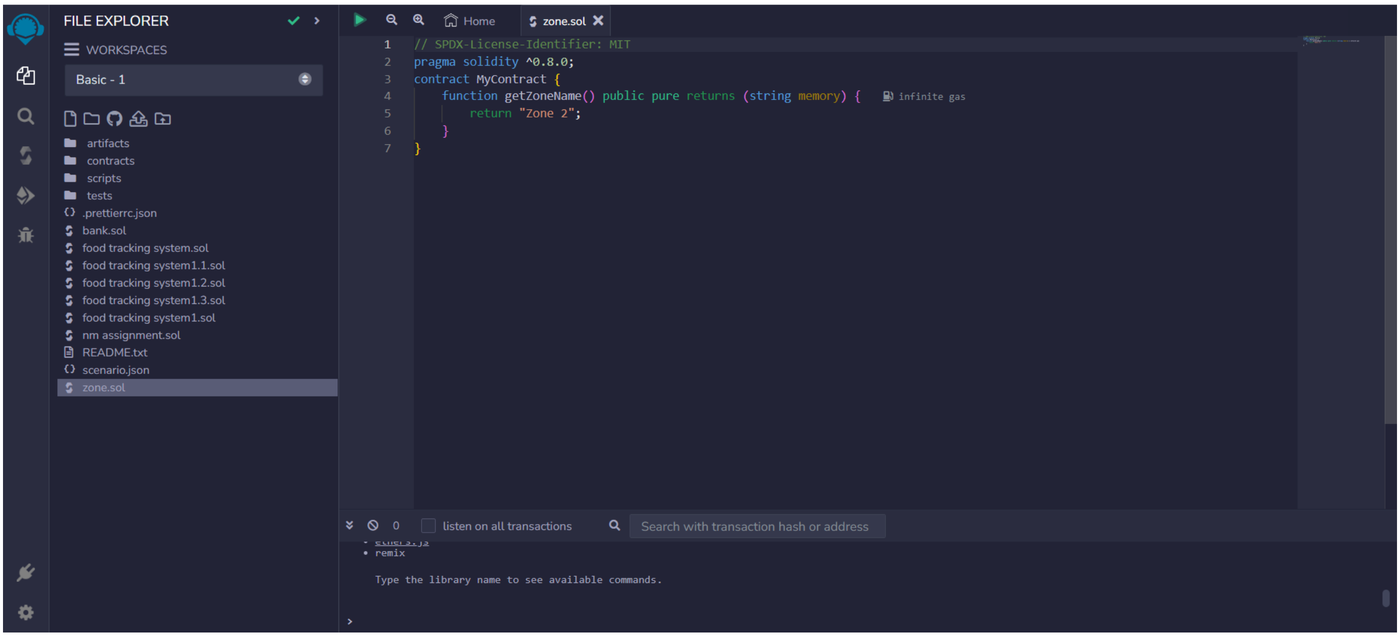
Solidity verificati

```
 • ethers.js
 • remix

   Type the library name to see available commands.

>
```

3.IN THE NEWLY CREATED FILE,CREATE A PROGRAM TO RETURN YOUR STRING ,”ZONE.SOL”

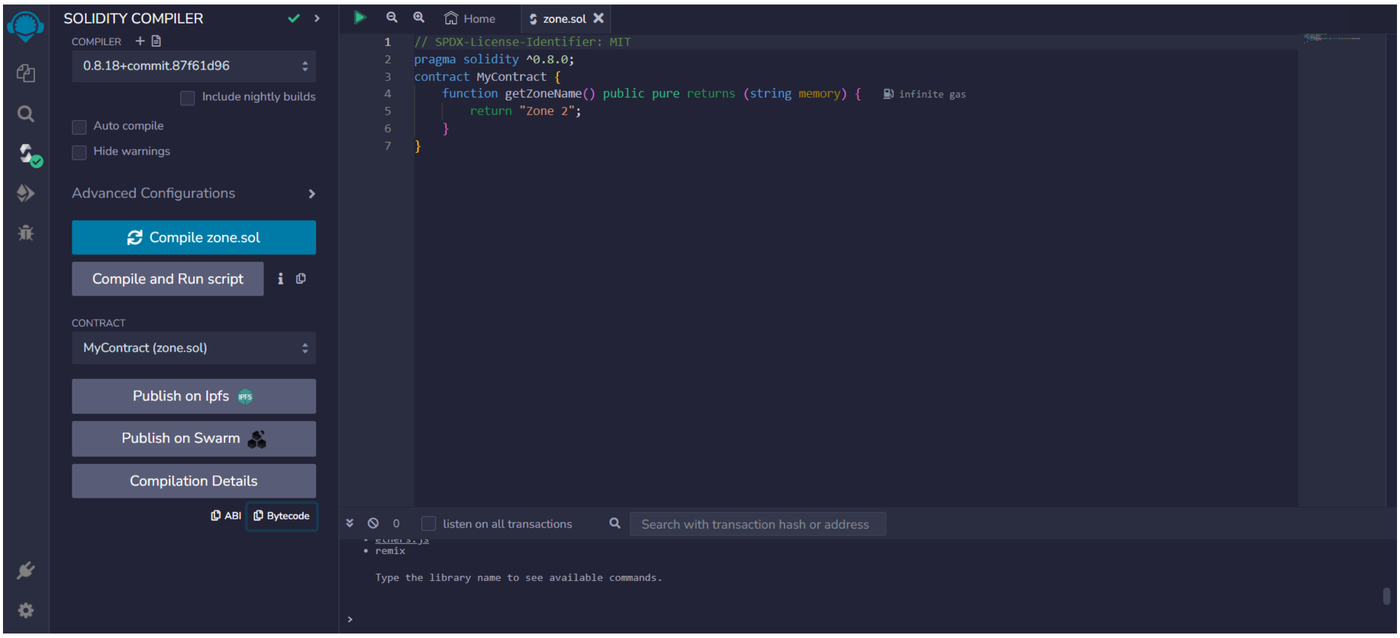


```
// SPDX-License-Identifier: MIT
pragma solidity ^0.8.0;
contract MyContract {
    function getZoneName() public pure returns (string memory) {
        return "Zone 2";
    }
}
```

```
 • ethers.js
 • remix

   Type the library name to see available commands.

>
```



COMPILER: 0.8.18+commit.87f61d96

□ Include nightly builds

□ Auto compile

□ Hide warnings

CONTRACT: MyContract (zone.sol)

```
// SPDX-License-Identifier: MIT
pragma solidity ^0.8.0;
contract MyContract {
    function getZoneName() public pure returns (string memory) {    infinite gas
        return "Zone 2";
    }
}
```

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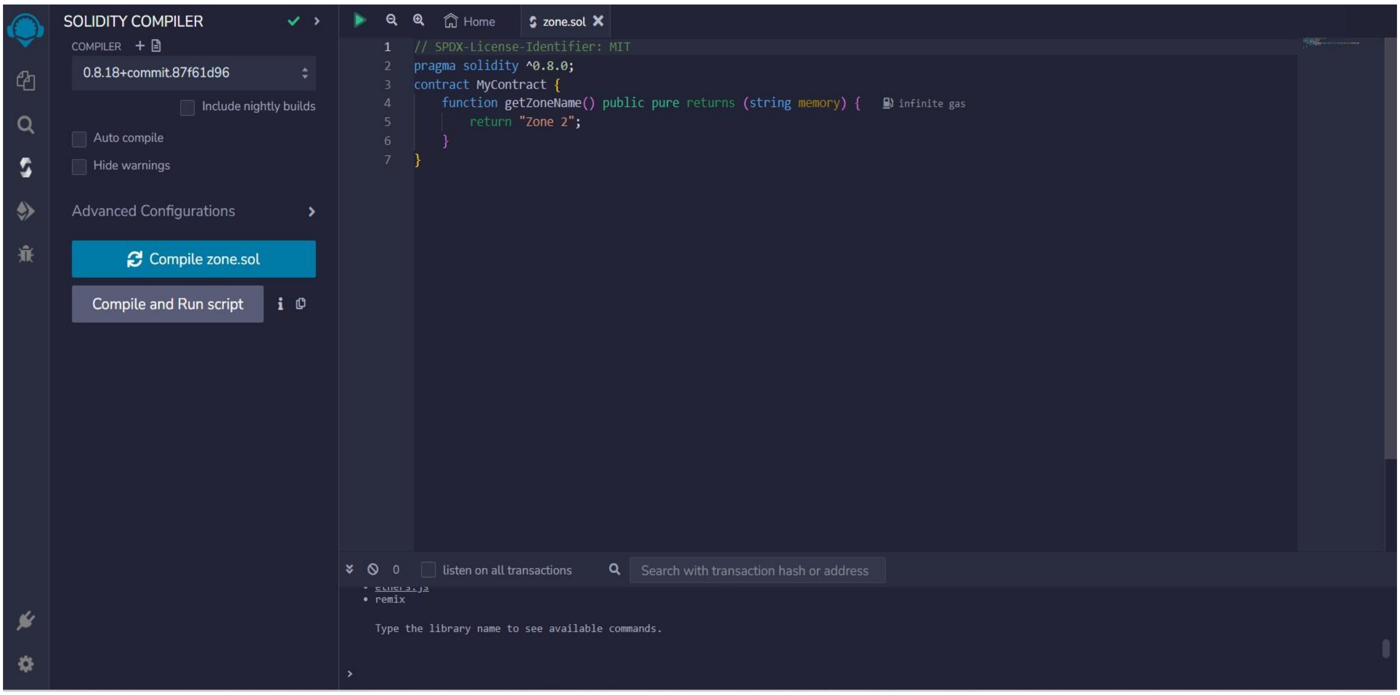

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```
• ethers.js
• remix

Type the library name to see available commands.

>
```

4.SAVE THE PROGRAM AND COMPILE IT TO GET THE ABI AND BYTECODE

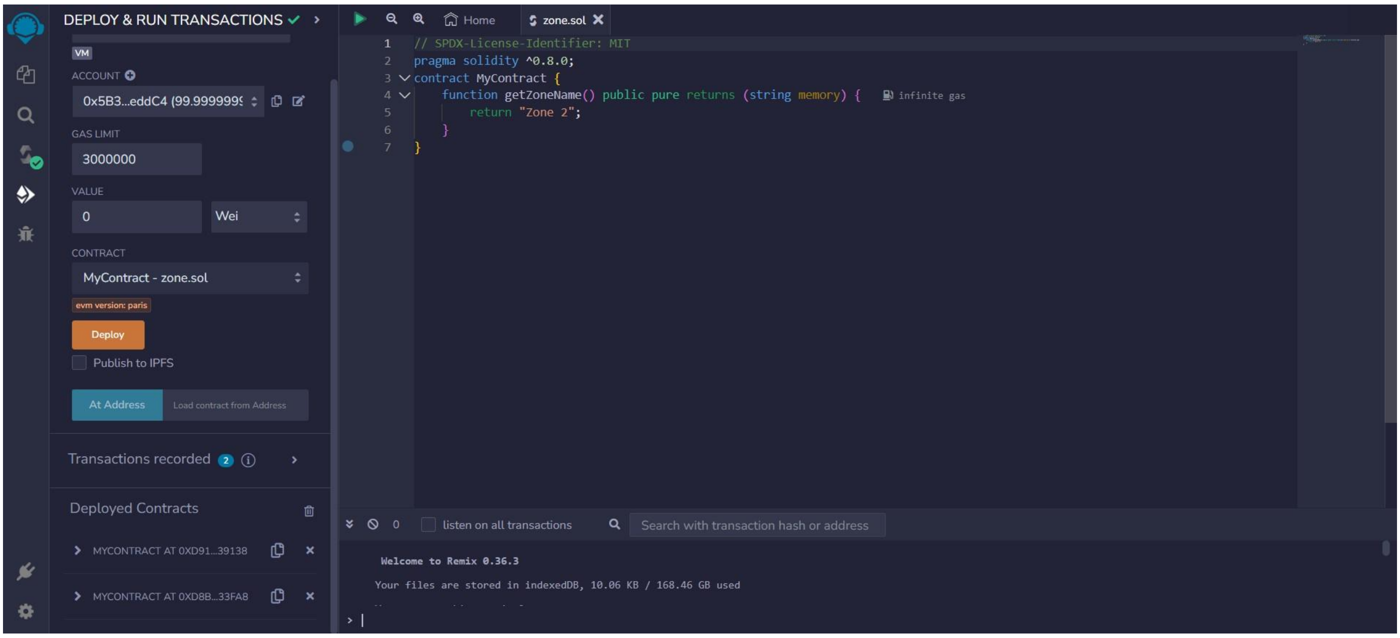
ABI:

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

BYTECODE:

```
608060405234801561001057600080fd5b506101738061002060003960 00f3fe6080604052348015610010576000
80fd5b5060043610610002b5760003560e01c8063235ed70f14610030575b600080fd5b61003861004e565b604051
610045919061011b565b60405180910390f35b606060405180604001604052806006815260200 17f5a6f6e652032
0000000000000000000000000000000000000000000000000000815250905090565b600081519050919050565b6
000828252602082019050929150505 65b60005b838110156100c557808201518184015260208101905061 00aa56
5b600084840152505050565b6000601f19601f8301169050919050565b60006100ed8261008b565b6100f78185
610096565b935061010781856020860161 00a7565b610110816100d1565b840191505092915050565b600060208
2019050818103600083015261013581846100e2565b90509291505056fea2646970667358221220b8236eeb307b
b1e0cc25993c06f915523963b48881be742dcf4e6e2fceb17ede64736f6c634300081200
```

FINALLY DEPLIOY IT TO DISPLAY THE OUTPUT



ACCOUNT: 0x5B3...eddC4 (99.9999999

GAS LIMIT: 3000000

VALUE: 0 Wei

CONTRACT: MyContract - zone.sol

evm version: paris

□ Publish to IPFS

MYCONTRACT AT 0XD91...39138

MYCONTRACT AT 0XD8B...33FA8

```
// SPDX-License-Identifier: MIT
pragma solidity ^0.8.0;
contract MyContract {
    function getZoneName() public pure returns (string memory) {    infinite gas
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    }
}
```

0 □ listen on all transactions   Search with transaction hash or address

```
 Welcome to Remix 0.36.3

Your files are stored in indexedDB, 10.06 KB / 168.46 GB used

>
```