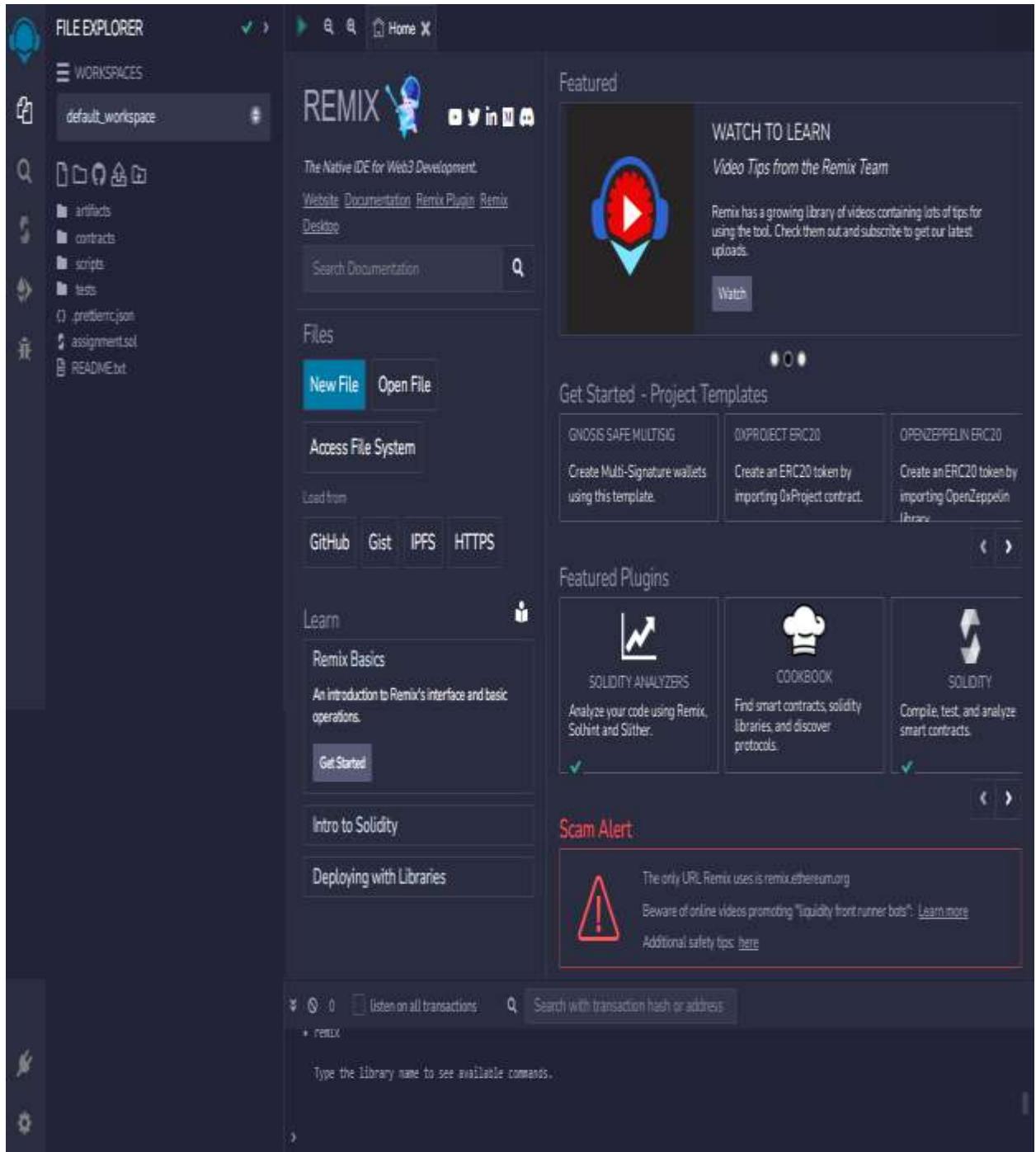


| | |
|----------------|---|
| NAME | SENKATHIR.P |
| ZONE | 4 |
| COLLEGE | GKM COLLEGE OF ENGINEERING AND TECHNOLOGY |

1. GO TO THE CHROME ATFORM OPEN REMIX PLARTFORM

The screenshot shows the Remix IDE interface. At the top, there's a navigation bar with icons for back, forward, home, and search. Below it is the Remix logo and social media links (Facebook, Twitter, LinkedIn, GitHub). A search bar says "Search Documentation". On the left, there's a sidebar titled "Files" with buttons for "New File", "Open File", and "Access File System". Below that is a "Load from" section with buttons for "GitHub", "Gist", "IPFS", and "HTTPS". Under "Learn", there are three sections: "Remix Basics" (with a "Get Started" button), "Intro to Solidity", and "Deploying with Libraries". The main content area has a "Featured" section with a cartoon character holding a book labeled "BETA TESTER". It also includes a "BETA TESTING" section with a "Sign up" button and a "Help us beta test releases now and get a handle on new features!". Below this is a "Get Started - Project Templates" section with four options: "GNOSIS SAFE MULTISIG", "OXPRESSO ERC20", "OPENZEPPELIN ERC20", and "OPENZEPPELIN ERC721". There's also a "Scam Alert" section with a warning icon, a note about the official URL, and safety tips. At the bottom, there's a footer with transaction monitoring tools and a search bar.

2. OPEN THE REMIX PAGE AND CREATE A NEW FILE



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

The screenshot shows the Solidity Compiler interface within the Remix IDE. On the left, the Solidity Compiler sidebar is visible, showing the compiler version as 0.8.18+commit.87f61d96, with options like "Include nightly builds", "Auto compile", "Hide warnings", and "Advanced Configurations". Below the sidebar, there are three buttons: "Compile assignment.sol" (highlighted in blue), "Compile and Run script", and "Deploy and Run".

The main area displays the Solidity code for the ZoneNameContract:

```
// SPDX-License-Identifier: MIT
pragma solidity ^0.8.0;

contract ZoneNameContract {
    function getZoneName() public pure returns (string memory) {
        return "Zone 4";
    }
}
```

Below the code, the CONTRACT section shows "ZoneNameContract (assignment.sol)". There are buttons for "Publish on Ipfs" and "Publish on Swarm".

The bottom half of the interface is the Remix terminal, showing the command line interface for interacting with the deployed contract.

```
Welcome to Remix 0.36.3.

Your files are stored in indexed0, 131.26 kB / 87.6 GB used

You can use this terminal to:
• Check transactions details and start debugging.
• Execute JavaScript scripts:
  - Input a script directly in the command line interface
  - Select a Javascript file in the file explorer and then run "remix.execute()" or "remix.execCurrent()" in the command line interface
  - Right click on a JavaScript file in the file explorer and then click "Run"

The following libraries are accessible:
• web3 version 1.5.3
• ethers.js
• remix

Type the library name to see available commands.
creation of ZoneNameContract pending...

[vm] From: 0x583...edc4 to: ZoneNameContract.(constructor) value: 0 wei data: 0x60...20033 logs: 0 hash: 0x0e...4ffbf Debug ▾

call to ZoneNameContract.getZoneName()

[call] From: 0x5330a6a781c560545dCfc883Fc8075f5Rbe0c4 to: ZoneNameContract.getZoneName() data: 0x235...ed0f Debug ▾
```

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

ABI:

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

BYTECODE:

5. FINALLY DEPLOY IT TO DISPLAY THE OUTPUT

The screenshot shows the Remix IDE interface. On the left, the sidebar contains settings for 'ENVIRONMENT' (Remix VM (Shanghai)), 'ACCOUNT' (0x593...edC4), and 'GAS LIMIT' (300000). The 'CONTRACT' section shows 'ZoneNameContract - assignment.sol' selected, with a 'Deploy' button highlighted in orange. Below it are options for 'Publish to IPFS' and 'At Address' (with a 'Load contract from Address...' link). The main workspace displays the Solidity code for 'assignment.sol':

```
// SPDX-License-Identifier: MIT
pragma solidity ^0.8.0;

contract ZoneNameContract {
    function getZoneName() public pure returns (string memory) {
        return "Zone 4";
    }
}
```

At the bottom, the transaction history shows a recent call to the deployed contract:

- Transactions recorded: 1
- Deployed Contracts:
 - ZONENAMECONTRACT AT (0x091...)
- Balance: 0 ETH
- getZoneName()
 - 0 string Zone 4
- Low level interactions:
 - CALLDATA