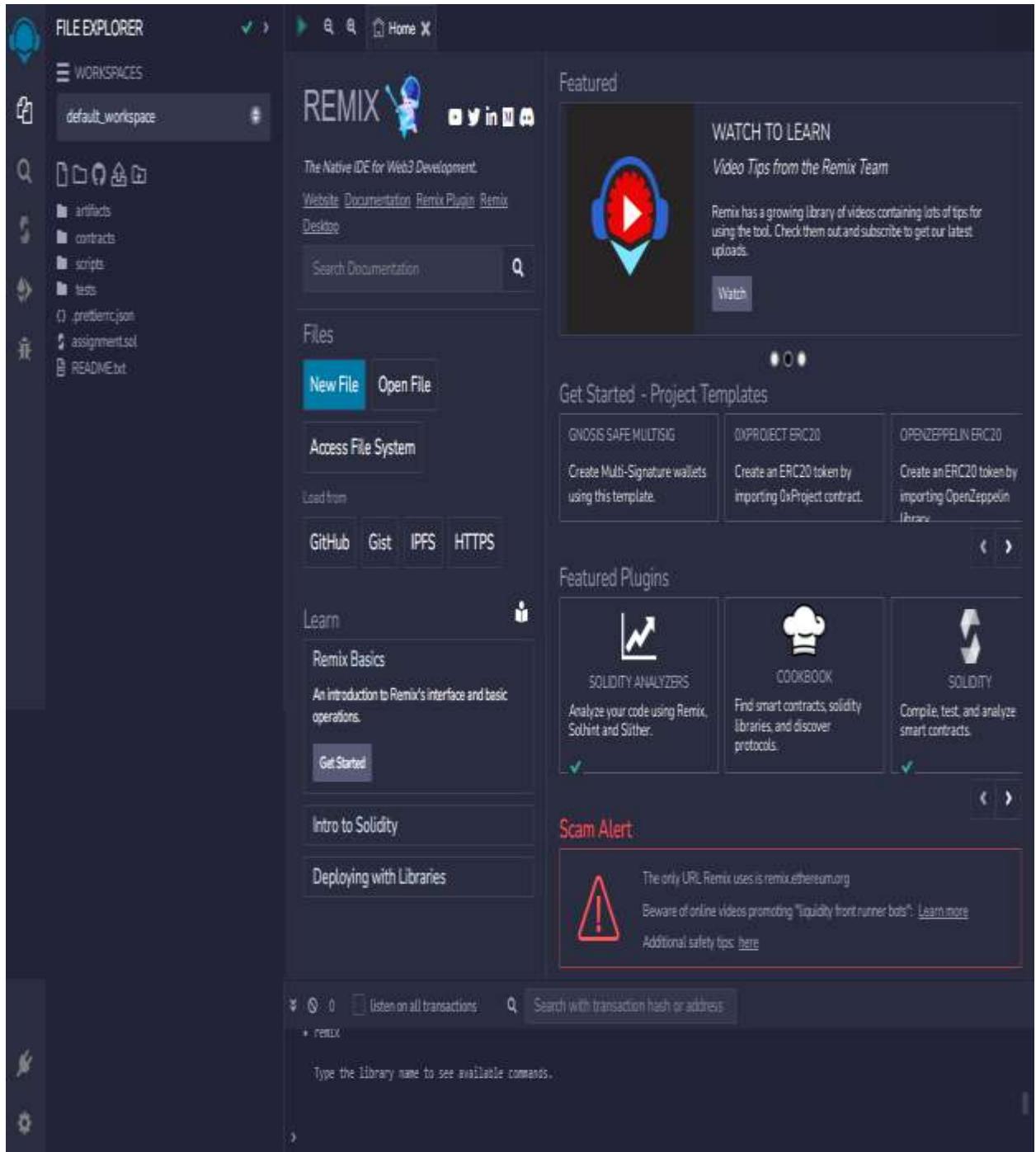


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# 1. GO TO THE CHROME ATFORM OPEN REMIX PLARTFORM

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" (Get Started), "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 includes a "BETA TESTING" heading, a "Our community supports us." message, and a "Help us beta test releases now and get a handle on new features!" button with a "Sign up" link. Below this is a "Get Started - Project Templates" section with four options: "GNOSIS SAFE MULTISIG", "OXPROJECT ERC20", "OPENZEPPELIN ERC20", and "OPENZEPPELIN ERC721". Each option has a brief description and a "Create" button. To the right of these are two small arrows. Next is a "Featured Plugins" section with four cards: "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), and "SOURCIFY" (Solidity contract and metaproxy verification service). Each card has a green checkmark icon. Below this is a "Scam Alert" section with a warning icon, a message about the唯一 URL being remix.ethereum.org, a note about Beware of online videos promoting "liquidity front-runner bots", a "Learn more" link, and additional safety tips. At the bottom, there's a footer with a "listen on all transactions" checkbox, a search bar, and a command line interface for library names.

## 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. It includes sections for ABI, Bytecode, and a terminal window with logs and transaction details.

## 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 is a checkbox for 'Publish to IPFS'. At the bottom of the sidebar are buttons for 'At Address' and 'Load contract from Address'. 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";
    }
}
```

Below the code, the transaction history shows a single entry:

- Transactions recorded: 1
- Deployed Contracts:
  - ZONENAMECONTRACT AT (0x091...)

For the deployed contract, the balance is shown as 0 ETH, and the function `getZoneName()` is listed with the output "Zone 4". A 'Low level interactions' section includes a 'CallData' field with a 'From' button.