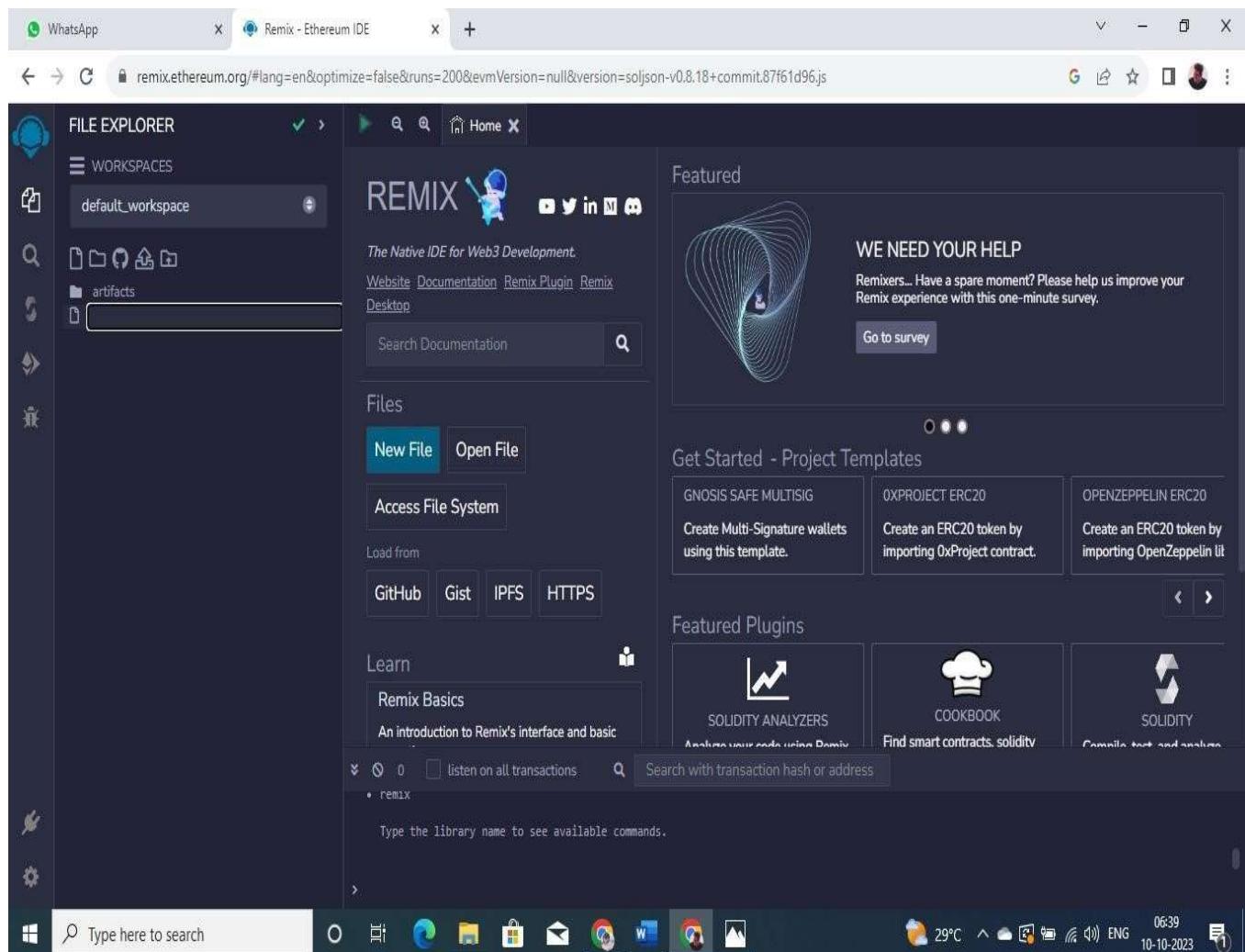


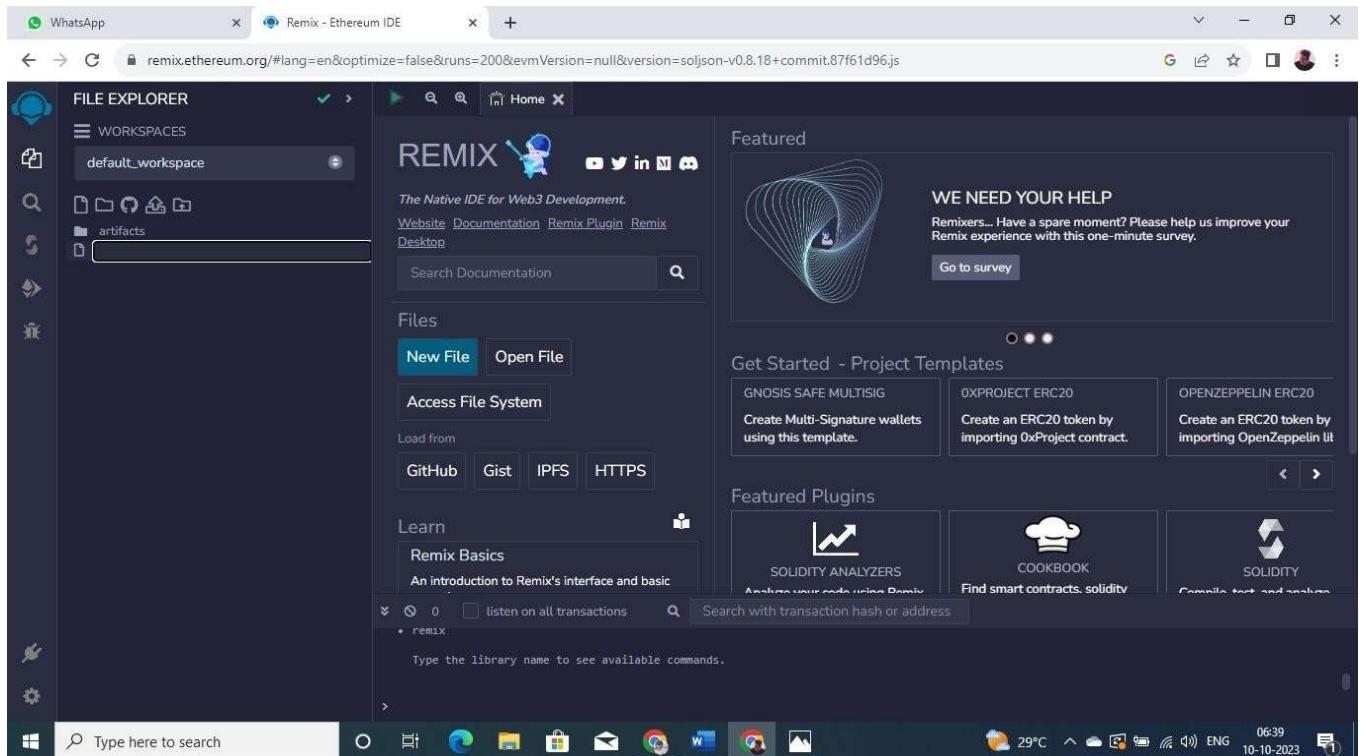
Assignment - I

Name:	PRATHAP . P
Team ID:	NM2023TMID00438
PROJECT NAME:	Digital Asset Management on the Ethereum Blockchain
NM ID:	04D4E564405DCA2B309478AC51EC67DB

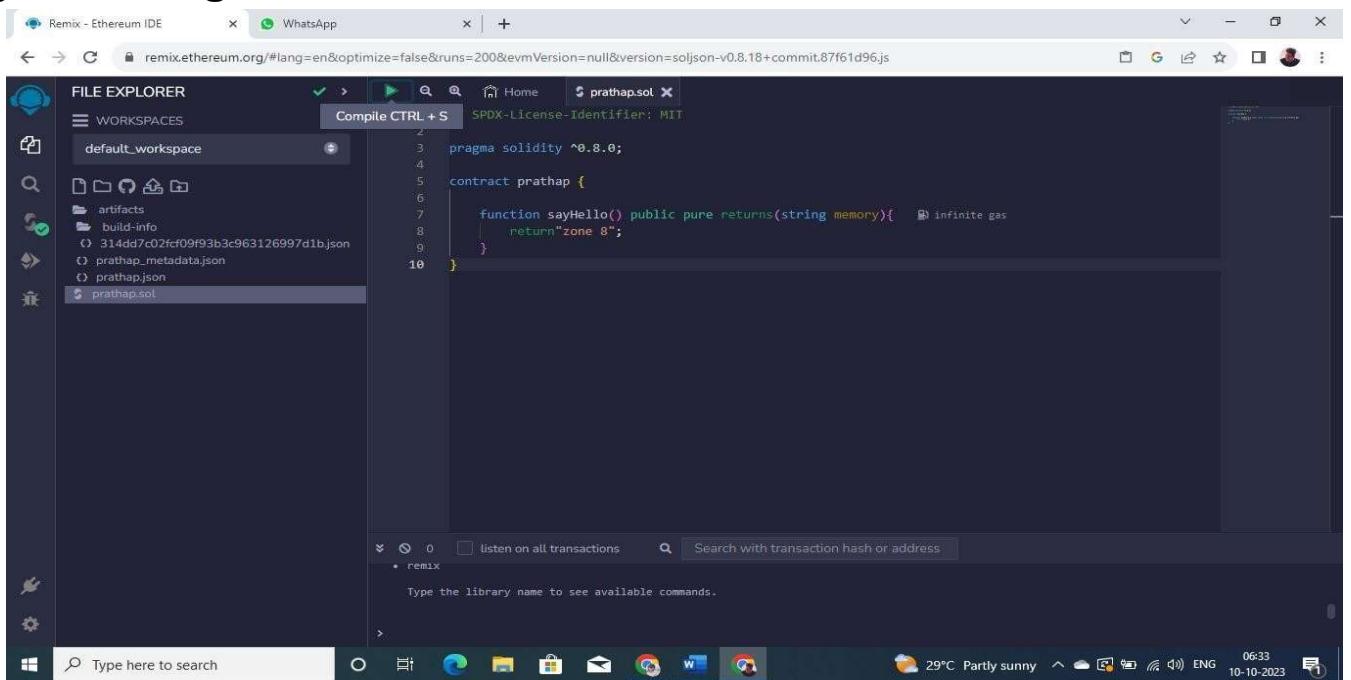
1. Go to the chrome and open remix platform



2. Open the remix page and create a new file



3. In that newly created file, create a program to return your string, "Zone name"



4. Save the program and compile it to get the ABI and Bytecode

ABI:

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

Bytecode:

```
608060405234801561001057600080fd5b50610173806100206000396000f3fe  
608060405234801561001057600080fd5b506004361061002b5760003560e01c  
8063ef5fb05b14610030575b600080fd5b61003861004e565b60405161004591  
9061011b565b60405180910390f35b6060604051806040016040528060068152  
 6020017f7a6f6e6520380000000000000000000000000000000000000000000000000000  
 00000000815250905090565b600081519050919050565b60008282526020820  
 1905092915050565b60005b838110156100c557808201518184015260208101  
90506100aa565b600084840152505050565b6000601f19601f830116905091  
9050565b60006100ed8261008b565b6100f78185610096565b9350610107818  
5602086016100a7565b610110816100d1565b840191505092915050565b6000  
602082019050818103600083015261013581846100e2565b90509291505056fe  
a26469706673582212205e0cb7a8223c51cc63a0d7887ee4d1482d7619e4b13  
de63bca1a4259b7e9e6cc64736f6c63430008120033
```

5.Finally Deploy it to display the output

The screenshot shows the Remix Ethereum IDE interface. On the left, the sidebar displays the deployed contract "PRATHAP AT 0XD8B...33FAB (ME)". The main area shows the Solidity code for the "prathap.sol" contract:

```
// SPDX-License-Identifier: MIT
pragma solidity ^0.8.0;
contract prathap {
    function sayHello() public pure returns(string memory) {
        return "zone 8";
    }
}
```

The "DEPLOY & RUN TRANSACTIONS" section on the left shows the deployment details: GAS LIMIT set to 3000000, VALUE set to 0 Wei, and the CONTRACT selected as "prathap - prathap.sol". The "Deploy" button is highlighted in orange. Below it, there's a checkbox for "Publish to IPFS" and two buttons: "At Address" and "Load contract from Address".

The central panel displays the transaction details for a call to the "sayHello" function:

CALL	[call]	from:	0x5B38Da6a701c568545dCfcB03FcB875f56beddC4	to:	prathap.sayHello()	data:	0xef5...fb05b
from			0x5B38Da6a701c568545dCfcB03FcB875f56beddC4				
to				prathap.sayHello()	0x08b934590fcE35a11B58C6073a0eE468a2833fa8		
execution cost					715 gas	(Cost only applies when called by a contract)	
input					0xef5...fb05b		
decoded input					{}		
decoded output					{ "0": "string: zone 8" }		
logs					{} {} {}		

The status bar at the bottom shows system information: 29°C Partly sunny, ENG, 06:34, 10-10-2023.