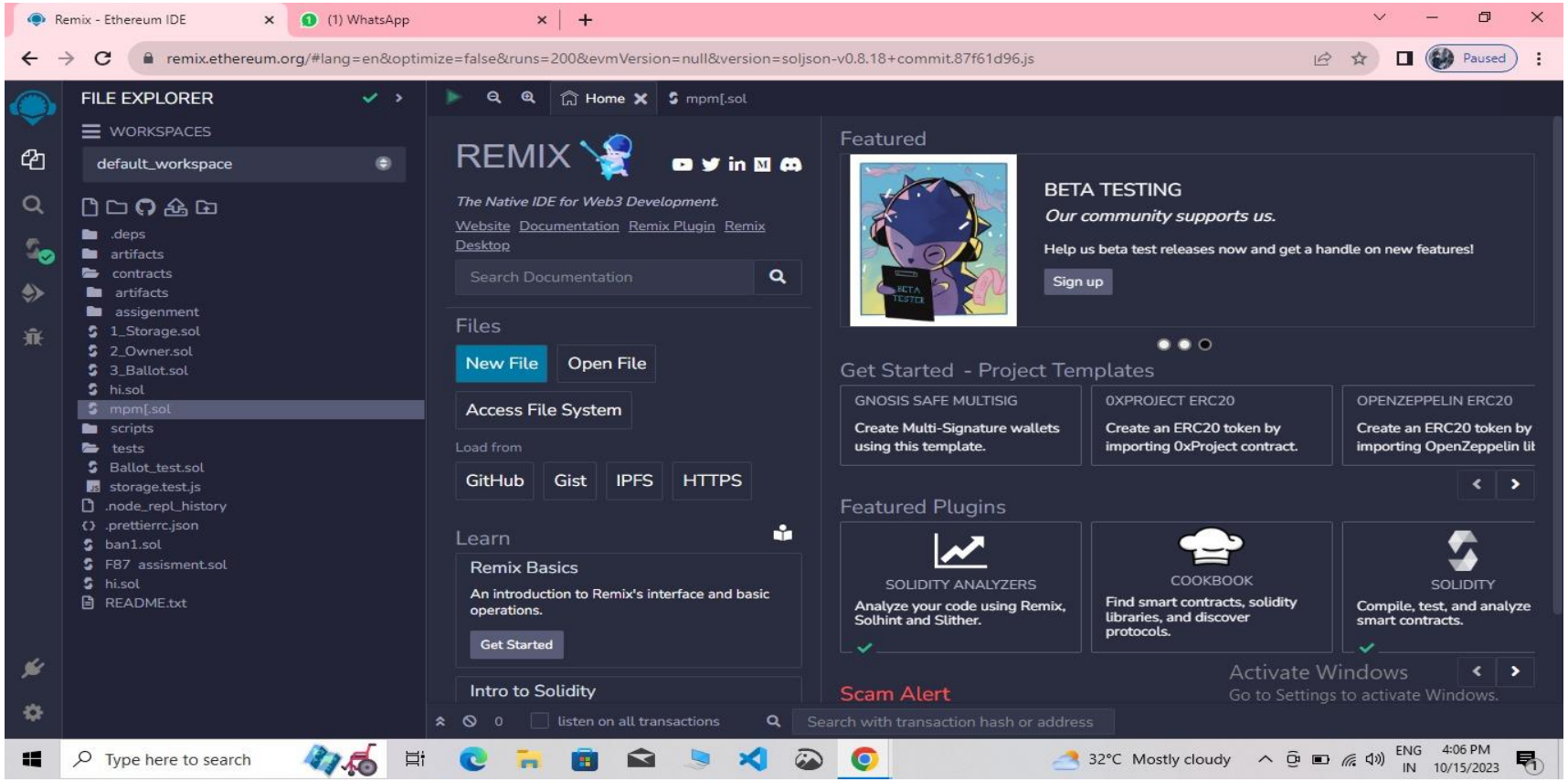
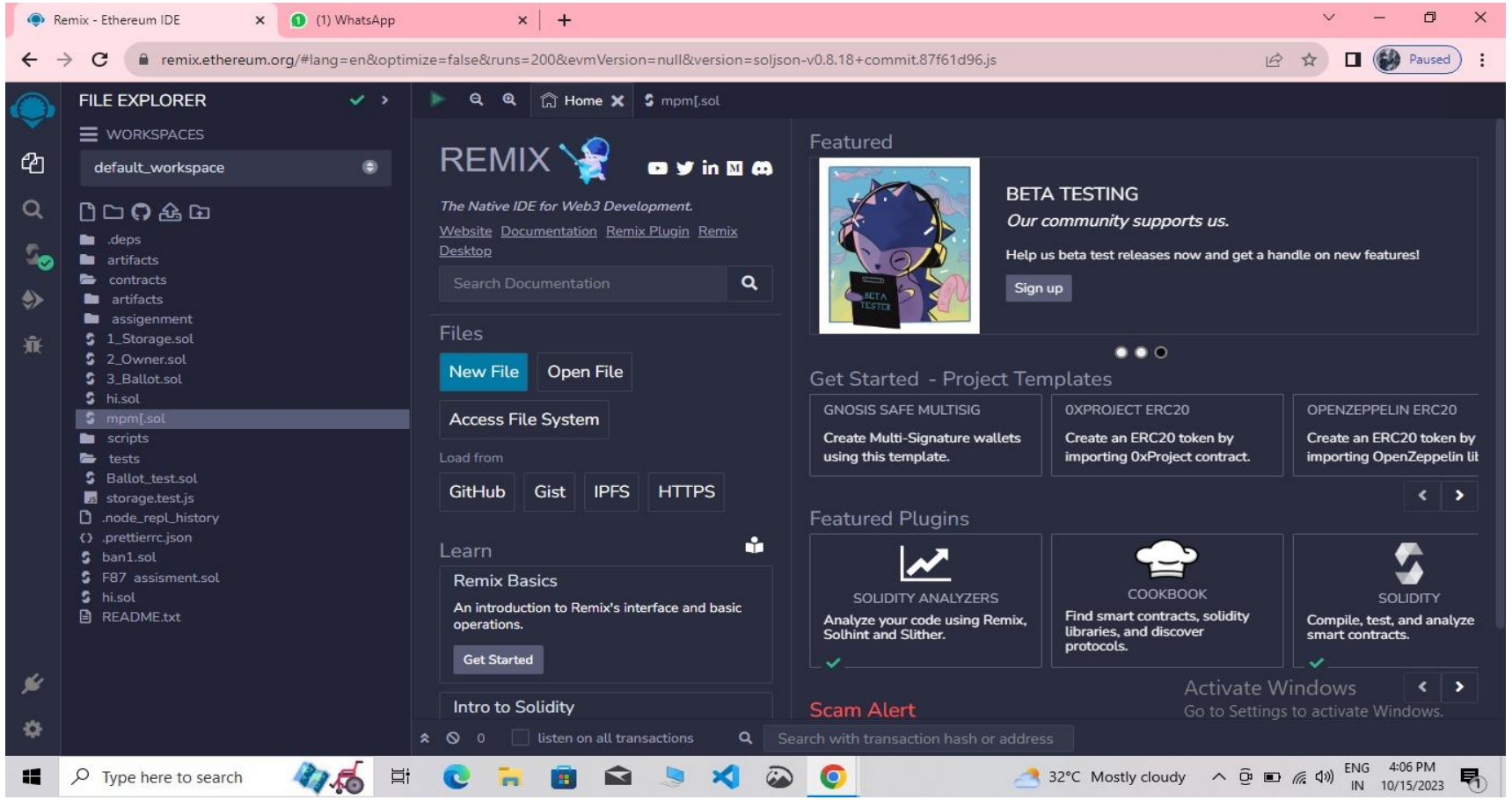
Assignment 1

Name	UDHAYA KUMAR .P
ZONE	4
COLLAGE	GKM COLLAGE OF ENGINEERING AND TECHNOLOGY

1. GO TO THE CHROME ATFORM OPEN REMIX PLARTF

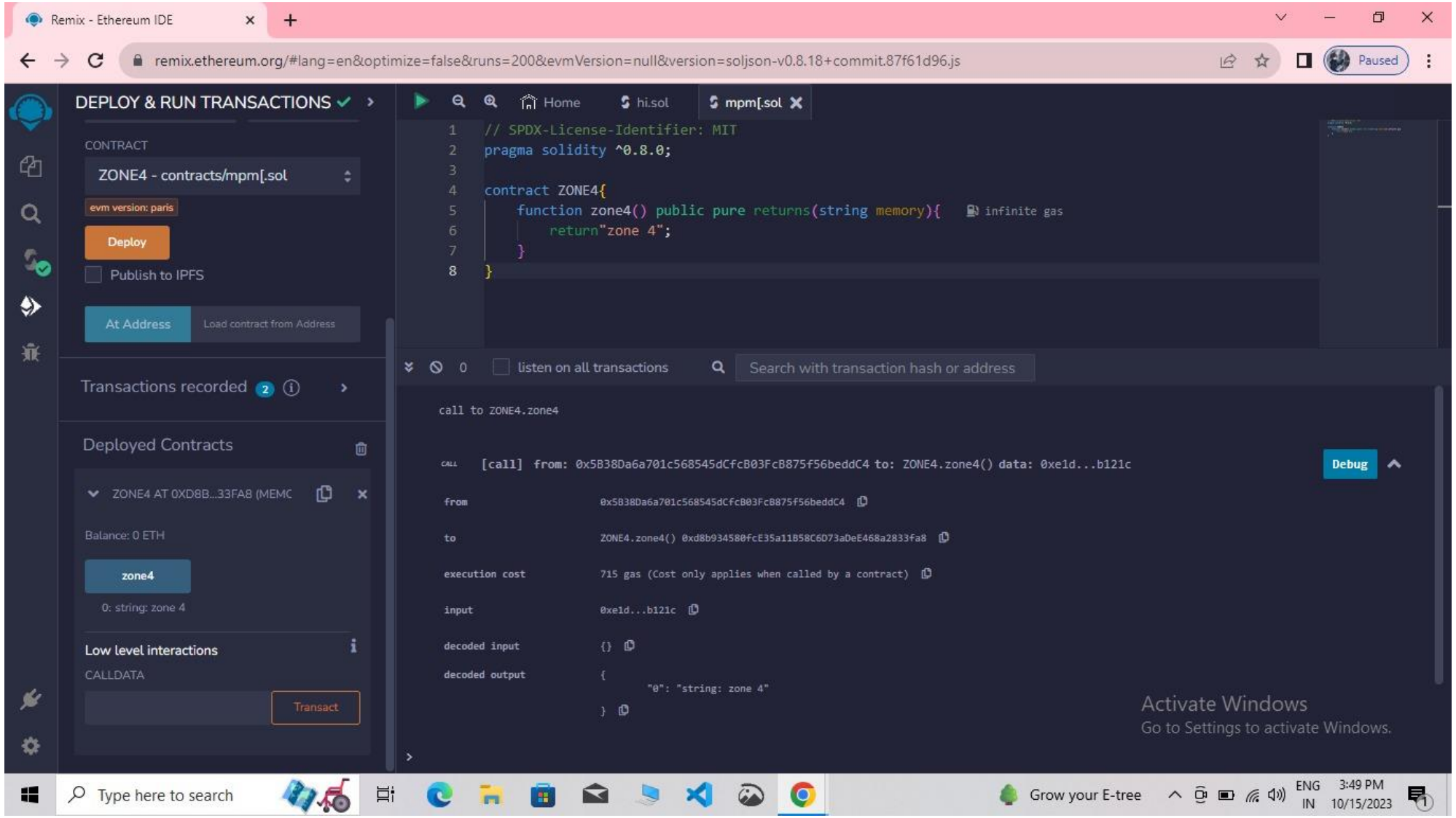


2. OPEN THE REMIX PAGE AND CRRATE A NEW FILE



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

```
1  // SPDX-License-Identifier: MIT
2  pragma solidity ^0.8.0;
3
4  contract ZONE4{
5      function zone4() public pure returns(string memory){    infinite gas
6          return"zone 4";
7      }
8  }
```


Remix - Ethereum IDE
remix.ethereum.org/#lang=en&optimize=false&runs=200&evmVersion=null&version=soljson-v0.8.18+commit.87f61d96.js
Paused
DEPLOY & RUN TRANSACTIONS
CONTRACT
ZONE4 - contracts/mpm[.sol
evm version: paris
Deploy
Publish to IPFS
At Address
Load contract from Address
Transactions recorded 2
Deployed Contracts
ZONE4 AT 0XD8B...33FA8 (MEMC
Balance: 0 ETH
zone4
0: string: zone 4
Low level interactions
CALLDATA
Transact
Home
hi.sol
mpm[.sol
// SPDX-License-Identifier: MIT
pragma solidity ^0.8.0;
contract ZONE4{
function zone4() public pure returns(string memory){
infinite gas
return"zone 4";
}
}
0
listen on all transactions
Search with transaction hash or address
call to ZONE4.zone4
CALL [call] from: 0x5B38Da6a701c568545dCfcB03FcB875f56beddC4 to: ZONE4.zone4() data: 0xe1d...b121c
Debug
from 0x5B38Da6a701c568545dCfcB03FcB875f56beddC4
to ZONE4.zone4() 0xd8b934580fcE35a11B58C6D73aDeE468a2833fa8
execution cost 715 gas (Cost only applies when called by a contract)
input 0xe1d...b121c
decoded input {}
decoded output { "0": "string: zone 4" }
Activate Windows
Go to Settings to activate Windows.
Type here to search
Grow your E-tree
ENG
IN
3:49 PM
10/15/2023

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

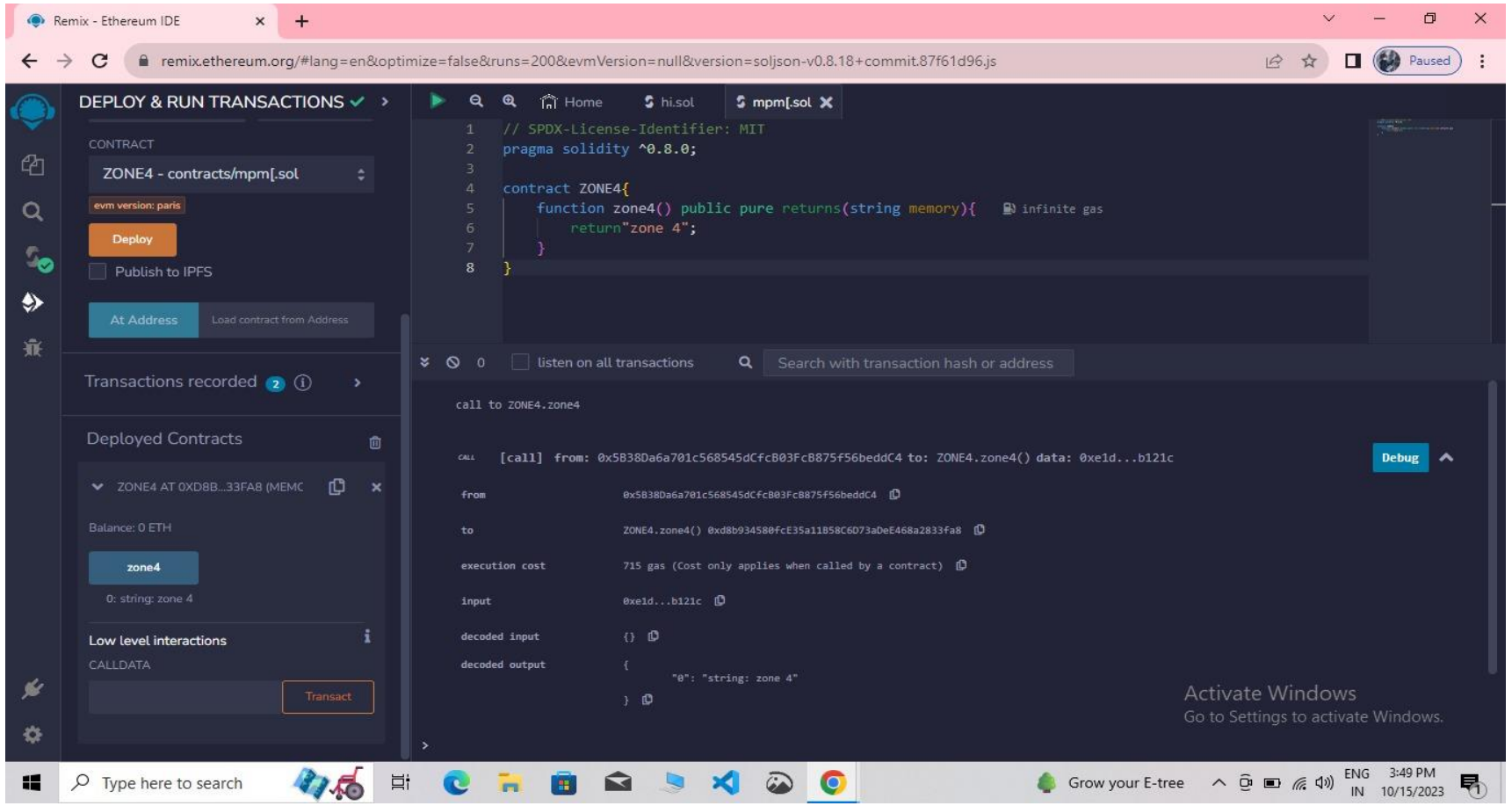
ABI

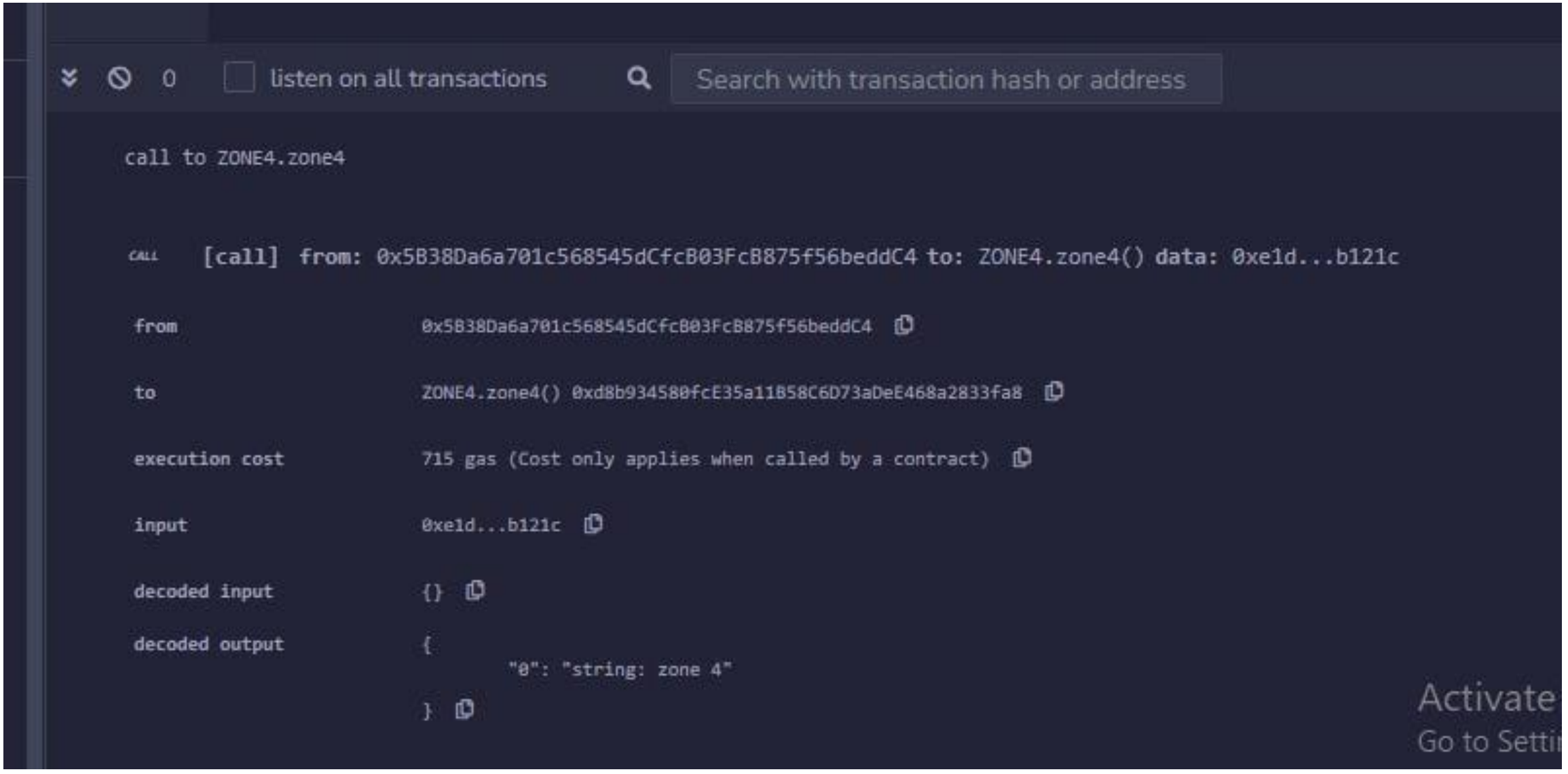

```
[
 {
  "inputs": [],
  "name": "zone4",
  "outputs": [
   {
    "internalType": "string",
    "name": "",
    "type": "string"
   }
  ],
  "stateMutability": "pure",
  "type": "function"
 }
]
```

BYTECODE

- 6080604052348015610010576000 80fd5b5061017380610020600039600 0f
3fe6080604052348015610010576000 80fd5b506004361061002b57600035
60e01c8063e1db121c14610030575b600080fd5b61003861004e565b60405
1610045919061011b565b60405180910390f35b60606040518060400160 4
05280600681526020017f7a6f6e6520340000000000000000000000000000
00000000000000000000000815250905090565b600081519050919050 56
5b600082825260208201905092915050565b60005b838110156100c55780
8201518184015260208101905061 00aa565b600084840152505050505 65b
6000601f19601f83011690509190505 65b60006100ed8261008b565b6100f
78185610096565b935061010781856020860161 00a7565b610110816100d
1565b840191505092915050565b600060208201905081810360008301526
1013581846100e2565b90509291505056fea2646970667358221220f80b40
ffe5d674ffefdf16a9c37a461f94ad9d73ad167fc812d29a5421a380f864736f6
c63430008120033

5. FINALLY DEPLIOY IT TO DISPLAY THE OUTPUT




0
listen on all transactions
Search with transaction hash or address
call to ZONE4.zone4
call [call] from: 0x5B38Da6a701c568545dCfcB03FcB875f56beddC4 to: ZONE4.zone4() data: 0xe1d...b121c
from 0x5B38Da6a701c568545dCfcB03FcB875f56beddC4
to ZONE4.zone4() 0xd8b934580fcE35a11B58C6D73aDeE468a2833fa8
execution cost 715 gas (Cost only applies when called by a contract)
input 0xe1d...b121c
decoded input {}
decoded output {
"0": "string: zone 4"
}
Activate
Go to Setti