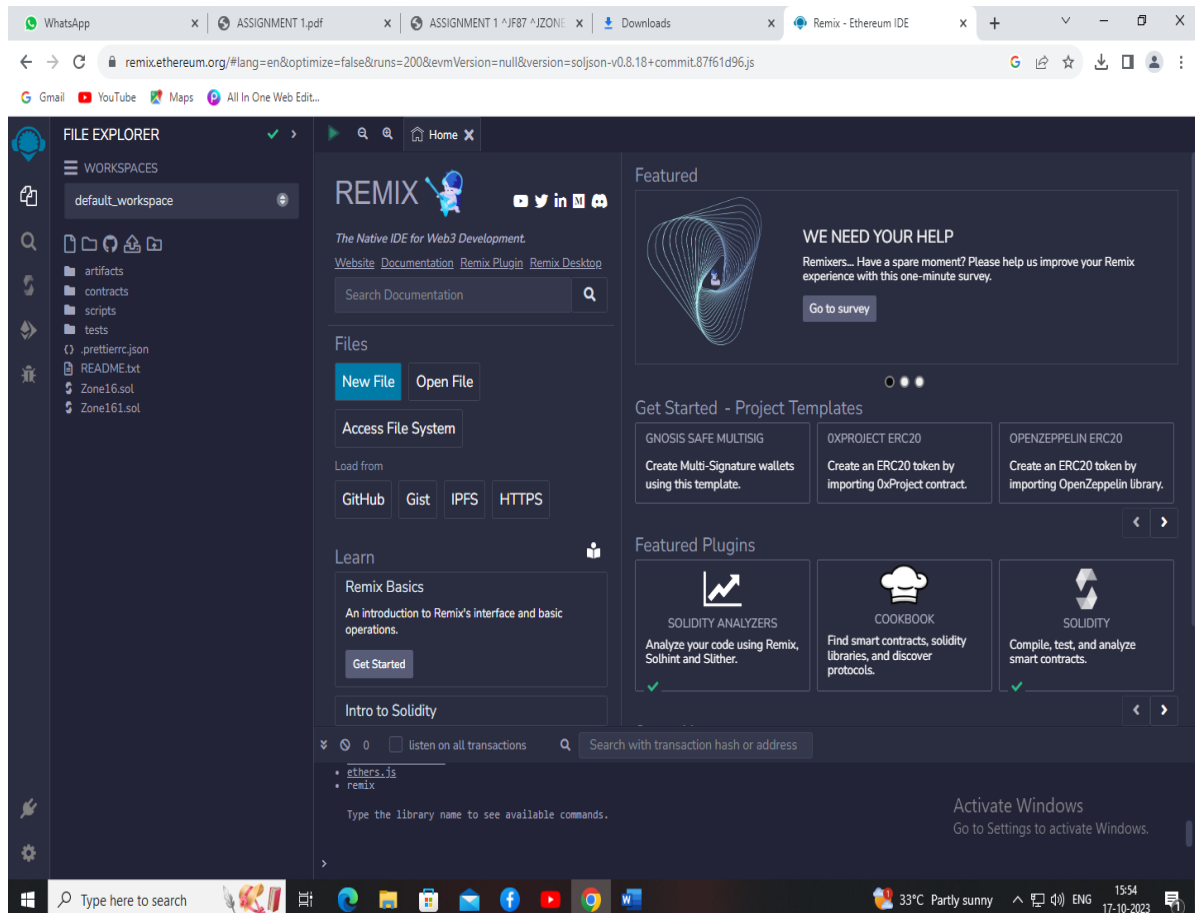


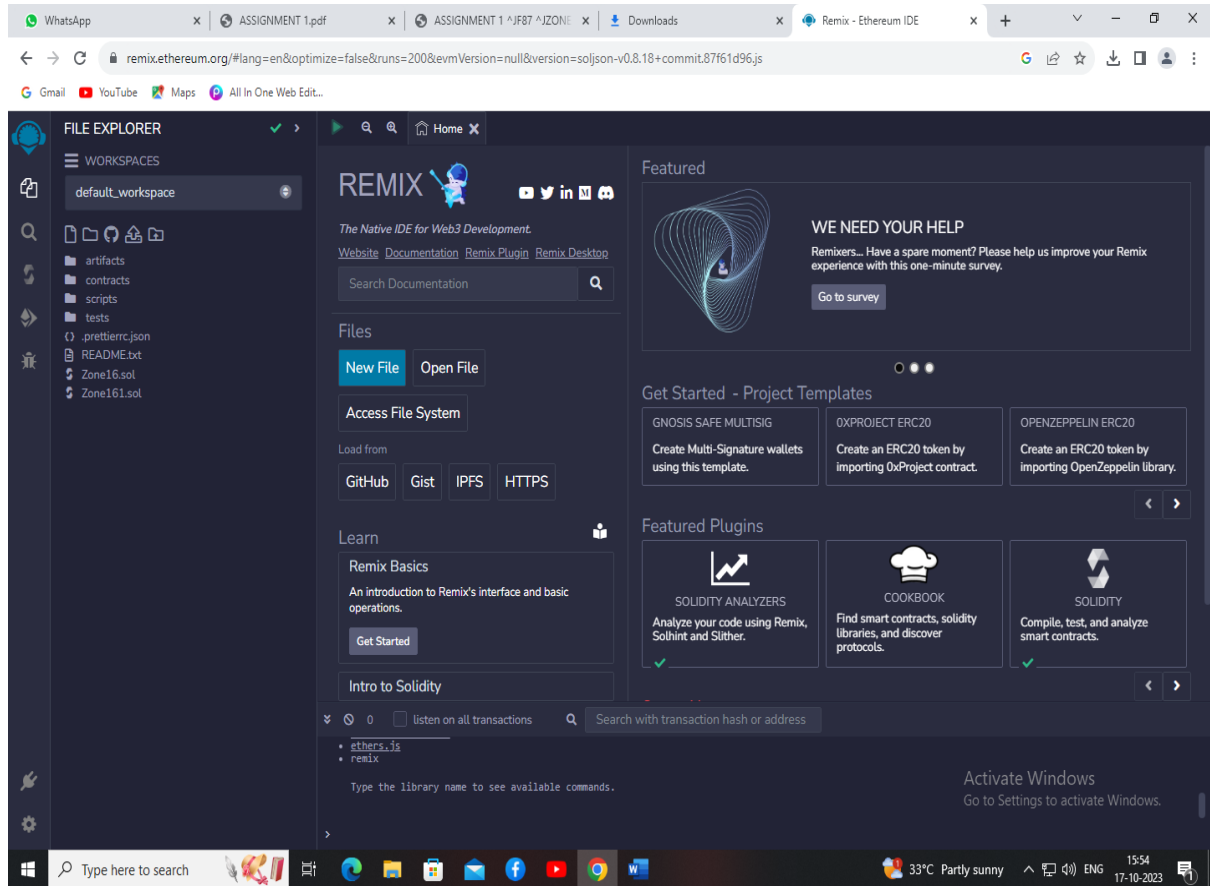
Assignment 1

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Zone	16
College	PSN INSTITUTE OF TECHNOLOGY AND SCIENCE

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 ZONE16{
5     function zone16() public pure returns(string memory){ infinite gas
6         return "zone 16";
7     }
8 }
```

Remix - Ethereum IDE x WhatsApp x ASSIGNMENT 1.pdf x ASSIGNMENT 1 ^Jf87 ^JZONE x Downloads x + -

remix.ethereum.org/#lang=en&optimize=false&runs=200&evmVersion=null&version=soljson-v0.8.18+commit.87f61d96.js

Gmail YouTube Maps All In One Web Edit...

DEPLOY & RUN TRANSACTIONS ✓

0 Wei

CONTRACT

ZONE16 - Zone16.sol

evm version: paris

Deploy

Publish to IPFS

At Address Load contract from Address

Transactions recorded 1 1

Deployed Contracts

▼ ZONENAMECONTRACT AT 0xD9

Balance: 0 ETH

getZoneName

0: string: Zone16

zoneName

0: string: Zone16

Low level interactions

CALLDATA

Transact

Zone16.sol 1 x Zone161.sol

1 // SPDX-License-Identifier: MIT

2 pragma solidity ^0.8.0;

3

4 contract ZONE16{

5 function zone16() public pure returns(string memory){ infinite gas

logs

val

call to ZoneNameContract.getZoneName

CALL [call] from: 0x58380a6a701c568545dcfc803fc8875f56beddc4 to: ZoneNameContract.getZoneName() data: 0x235...ed70f

call to ZoneNameContract.zoneName

CALL [call] from: 0x58380a6a701c568545dcfc803fc8875f56beddc4 to: ZoneNameContract.zoneName() data: 0x68c...e6dfe

from 0x58380a6a701c568545dcfc803fc8875f56beddc4

to ZoneNameContract.zoneName() 0xd9145ccf520386f254917e481e844e9943f39138

execution cost 3423 gas (Cost only applies when called by a contract)

input 0x68c...e6dfe

decoded input {}

decoded output { "0": "string: Zone16" }

logs

Debug

Debug

Activate Windows
Go to Settings to activate Windows.

Type here to search 33°C Partly sunny 15:53 17-10-2023

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

```
[
  {
    "inputs": [],
    "name": "zone16",
    "outputs": [
      {
        "internalType": "string",
        "name": "",
        "type": "string"
      }
    ],
    "stateMutability": "pure",
    "type": "function"
  }
]
```

BYTECODE

- 608060405234801561001057600080fd5b50610173806100206000396000f
3fe608060405234801561001057600080fd5b506004361061002b57600035
60e01c8063e1db121c14610030575b600080fd5b61003861004e565b60405
1610045919061011b565b60405180910390f35b606060405180604001604
05280600681526020017f7a6f6e65203400000000000000000000000000
0000000000000000000000000000815250905090565b60008151905091905056
5b600082825260208201905092915050565b60005b838110156100c55780
820151818401526020810190506100aa565b60008484015250505050565b
6000601f19601f8301169050919050565b60006100ed8261008b565b6100f
78185610096565b93506101078185602086016100a7565b610110816100d
1565b840191505092915050565b600060208201905081810360008301526
1013581846100e2565b90509291505056fea2646970667358221220f80b40
ffe5d674ffefdf16a9c37a461f94ad9d73ad167fc812d29a5421a380f864736f6
c63430008120033

5. FINALLY DEPLOYOY IT TO DISPLAY THE OUTPUT

The screenshot displays the Remix Ethereum IDE interface. The top bar shows the browser address: `remix.ethereum.org/#lang=en&optimize=false&runs=200&evmVersion=null&version=soljson-v0.8.18+commit.87f61d96.js`. The left sidebar contains the 'DEPLOY & RUN TRANSACTIONS' panel, which shows the contract 'ZONE16 - Zone16.sol' and a 'Deploy' button. Below this, the 'Deployed Contracts' section shows the contract at address '0x09D9145CCE52D186F254917E481E846E9943F39318' with a balance of 0 ETH. The 'Low level interactions' section shows a 'Transact' button. The main editor displays the Solidity code for the 'ZONE16' contract:

```
1 // SPDX-License-Identifier: MIT
2 pragma solidity ^0.8.0;
3
4 contract ZONE16{
5     function zone16() public pure returns(string memory){ infinite gas
```

The right sidebar shows the 'Logs' panel, which displays the execution results of the contract. The logs show a call to `ZoneNameContract.getZoneName()` and a call to `ZoneNameContract.zoneName()`. The execution cost is 3423 gas. The decoded output for the `zoneName()` call is `"0": "string: Zone16"`.

The bottom status bar shows the system temperature as 33°C, the weather as 'Partly sunny', and the time as 15:53 on 17-10-2023.