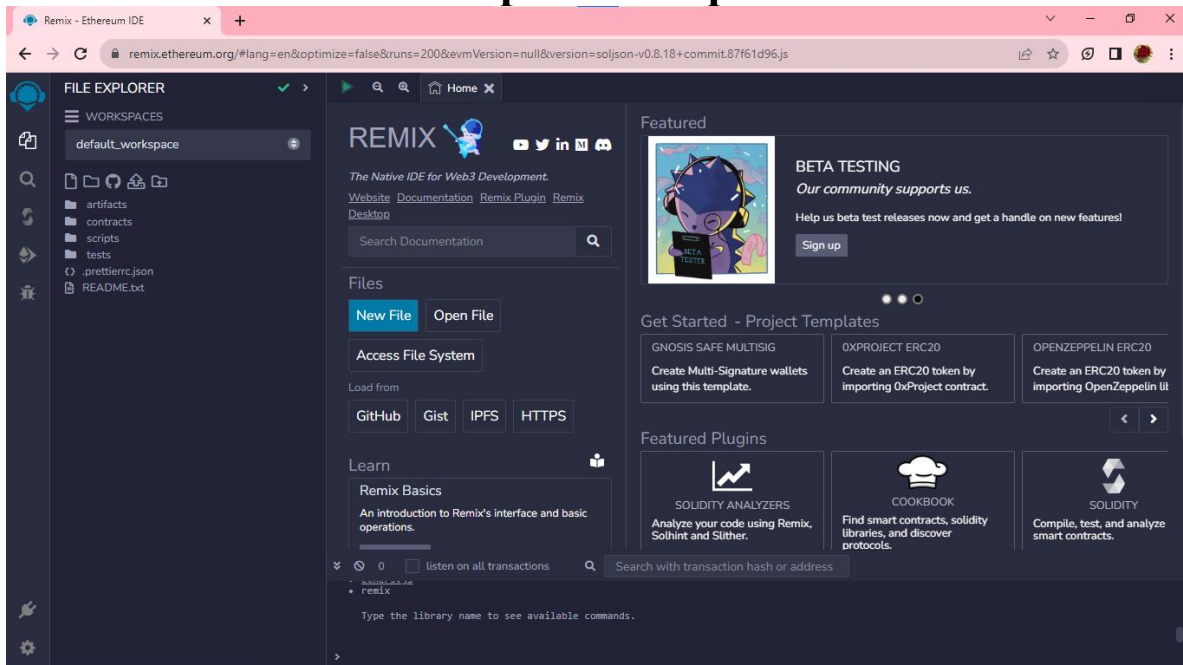


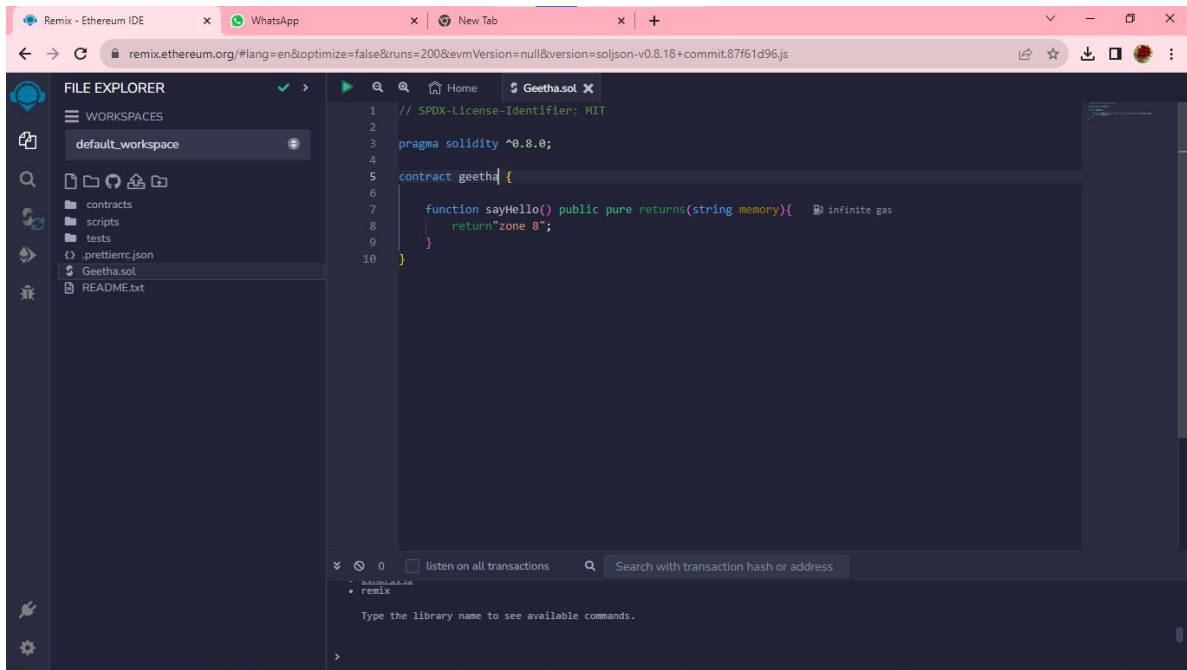
ASSIGNMENT-1

NAME	Geetha.S
ZONE	8
COLLEGE	GANESH COLLEGE OF ENGINEERING
TEAM ID	NM2023TMID00452

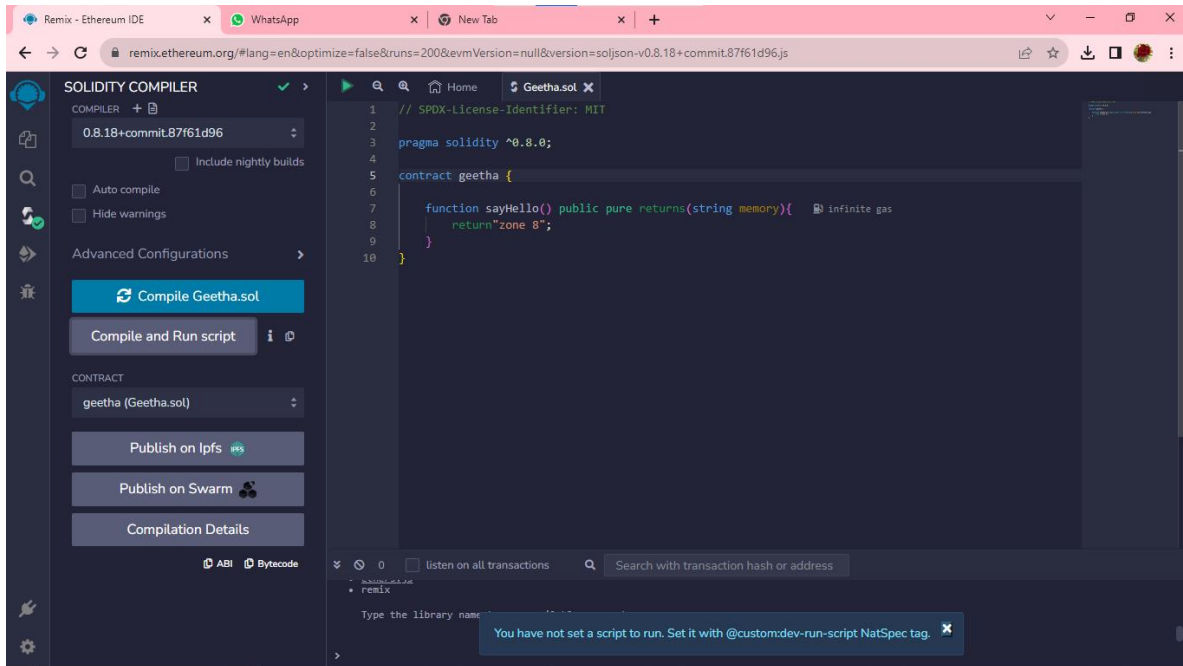
1. Go to the chrome and open remix platform



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"



PROGRAM:

```
// SPDX-License-Identifier: MIT
pragma solidity ^0.8.0;
contract geetha{
    function getZoneName() public pure
    returns (string memory) {
        return "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:

```
608060405234801561001057600080fd5b50610173806100206000396000f3f
e608060405234801561001057600080fd5b506004361061002b5760003560e
01c8063ef5fb05b14610030575b600080fd5b61003861004e565b6040516100
45919061011b565b60405180910390f35b6060604051806040016040528060
0681526020017f7a6f6e6520380000000000000000000000000000000000
000000000000000815250905090565b600081519050919050565b600082825
260208201905092915050565b60005b838110156100c557808201518184015
26020810190506100aa565b60008484015250505050565b6000601f19601f83
01169050919050565b60006100ed8261008b565b6100f78185610096565b93
506101078185602086016100a7565b610110816100d1565b84019150509291
5050565b6000602082019050818103600083015261013581846100e2565b90
509291505056fea26469706673582212208dde0857bb874438496115f3c79da
b8f41b939c6982b804b9c14c7632f7ccf3e64736f6c63430008120033
```

5. Finally Deploy it to display the output

The screenshot displays the Remix Ethereum IDE interface. The top bar shows the URL: `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 includes a 'VALUE' field set to '0' in 'Wei', a 'CONTRACT' dropdown showing 'geetha - Geetha.sol', and a 'Deploy' button. Below this, there are sections for 'Transactions recorded' and 'Deployed Contracts'. The 'Deployed Contracts' section shows a contract named 'GEETHA AT 0XD91...39138 (MEM)' with a 'sayHello' button and a 'Transact' button. The main editor displays the Solidity code for the 'geetha' contract:

```
1 // SPDX-License-Identifier: MIT
2
3 pragma solidity ^0.8.0;
4
5 contract geetha {
6
7     function sayHello() public pure returns(string memory){ infinite gas
8         return "zone 8";
9     }
10 }
```

The bottom panel shows the execution results. It includes a search bar for transaction hashes or addresses. The execution cost is 715 gas. The input is `0xf853...eddc4`. The decoded output is `{ "0": "string: zone 8" }`. The logs show the creation of the 'geetha' contract and two successful transactions from `0xf853...eddc4` to `geetha.constructor`.