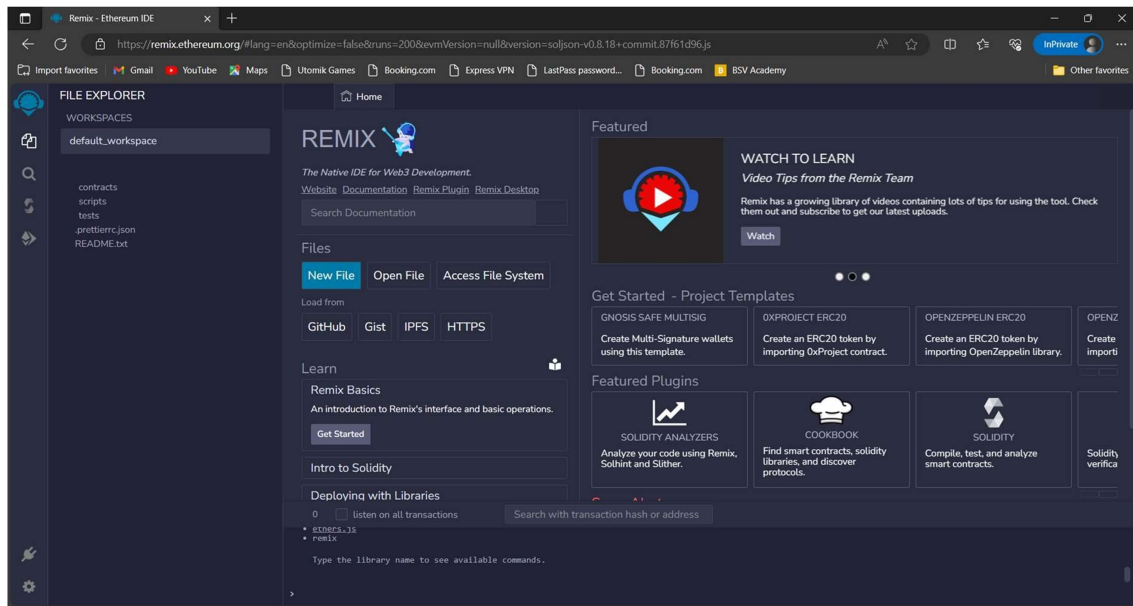


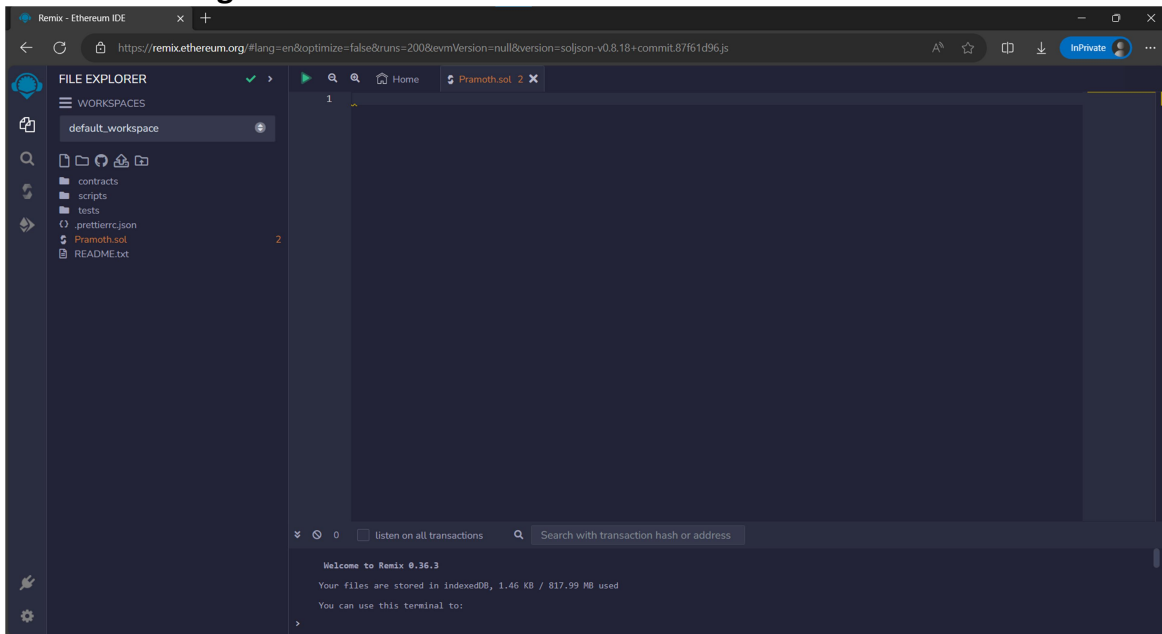
Blockchain Technology

Assignment-01

1. Open Remix Platform



2. Creating a new file



3. Program to return a string

The screenshot displays the Remix Ethereum IDE interface. On the left, the 'SOLIDITY COMPILER' panel is active, showing the compiler version '0.8.18+commit.87f61d96' and buttons for 'Compile', 'Advanced Configurations', 'Compile Pramoth.sol', 'Compile and Run script', 'Publish on Ipfs', 'Publish on Swarm', and 'Compilation Details'. The main editor area shows a Solidity file named 'Pramoth.sol' with the following code:

```
1 //SPDX-License-Identifier: MIT
2
3 pragma solidity ^0.8.0;
4
5 contract Info {
6     function getInfo() public pure returns(string memory){ Infinite gas
7         return "This is Zone 10";
8     }
9 }
```

At the bottom, the 'CONTRACT' panel shows 'Info (Pramoth.sol)' and buttons for 'ABI' and 'Bytecode'. The bottom status bar displays 'Welcome to Remix 0.36.3' and 'Your files are stored in IndexedDB, 1.46 KB / 817.99 MB used'.

4. ABI

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

Byte Code

```
608060405234801561001057600080fd5b50610173806100206000396000f3fe608060405234
801561001057600080fd5b506004361061002b5760003560e01c80635a9b0b8914610030575b
600080fd5b61003861004e565b604051610045919061011b565b60405180910390f35b606060
40518060400160405280600f81526020017f54686973206973205a6f6e652031300000000000
00000000000000000000000000000000000815250905090565b600081519050919050565b6000828252602
08201905092915050565b60005b838110156100c55780820151818401526020810190506100
aa565b60008484015250505050565b6000601f19601f8301169050919050565b60006100ed82
61008b565b6100f78185610096565b93506101078185602086016100a7565b610110816100d
1565b840191505092915050565b6000602082019050818103600083015261013581846100e2
565b90509291505056fea2646970667358221220d3c1de3718793e1d131547d9faafebb93f407
2039438e42390670b7102cae10164736f6c63430008120033
```

5. Deployment

The screenshot displays the Remix Ethereum IDE interface. The top bar shows the URL `https://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 '3000000', a 'CONTRACT' dropdown set to 'Info - Pramoth.sol', and a 'Deploy' button. Below this, there is a 'Transactions recorded' section and a 'Deployed Contracts' section showing the 'Info' contract at address '0xD91...3913B'. The main editor area shows the Solidity code for the 'Info' contract:

```
1 //SPDX-License-Identifier: MIT
2
3 pragma solidity ^0.8.0;
4
5 contract Info {
6     function getInfo() public pure returns(string memory){ Infinite gas
7         return "This is Zone 10";
8     }
9 }
```

The bottom panel shows the 'Low level interactions' section with a 'CALLDATA' field and a 'Transact' button. The bottom right corner displays a debug console with a log entry: `[call] from: 0x5B380a6a701c568545dCfC803fc8875F56beddC4 to: Info.getInfo() data: 0x5a9...b0b89`.