

Name: Jay Rajesh Umap

Roll No.: 2205010

Enrollment No.: MITU20BTIT0029

Class: LY IT Core

Assignment No. 5: Solidity (Part 1)

Execute the following code in remix ide (<https://remix.ethereum.org/>)

```
// SPDX-License-Identifier: GPL-3.0

pragma solidity >= 0.6.0 < 0.9.0;

/**
 * @title Storage
 * @dev Store & retrieve value in a variable
 * @custom:dev-run-script contracts/test3.sol
 */

contract Identity {
    string name;
    uint age;
    uint roll_no;
    string enr1_no;

    constructor(){
        name = "Jay Umap";
        age = 21;
        roll_no = 2205010;
        enr1_no = "MITU20BTIT0029";
    }

    function getName() view public returns(string memory, uint, uint, string memory){
        return(
            name,
            age,
            roll_no,
            enr1_no
        );
    }

    function setAge() public {
        age=age+1;
    }
}
```

Output:

The screenshot shows the Remix Ethereum IDE interface. The main editor displays a Solidity contract named 'Identity' with the following code:

```
contract Identity {
    string name;
    uint age;
    uint roll_no;
    string enr1_no;

    constructor(){
        name = "Jay Umap";
        age = 21;
        roll_no = 2205010;
        enr1_no = "MITU20BTIT0029";
    }

    function getName() view public returns(string memory, uint, uint, string memory){
        return(
            name,
            age,
            roll_no,
            enr1_no
        );
    }

    function setAge() public {
        age=age+1;
    }
}
```

The left sidebar shows the 'DEPLOY & RUN TRANSACTIONS' panel. Under 'Deployed Contracts', the 'IDENTITY AT 0XD2A...FD005 (MEI)' contract is listed with a balance of 0 ETH. Below the contract name, there are two buttons: 'setAge' and 'getName'. The 'Low level interactions' section shows the 'CALLDATA' field with the following data:

```
0: string: Jay Umap
1: uint256: 22
2: uint256: 2205010
3: string: MITU20BTIT0029
```

This is a close-up view of the 'Deployed Contracts' panel. It shows the contract 'IDENTITY AT 0XD2A...FD005 (MEI)' with a balance of 0 ETH. The 'setAge' and 'getName' buttons are visible. Below them, the state variables are listed: '0: string: Jay Umap', '1: uint256: 24', '2: uint256: 2205010', and '3: string: MITU20BTIT0029'. The 'Low level interactions' section is also visible, showing the 'CALLDATA' field and a 'Transact' button.