

ASSIGNMENT NO.4

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Input:

//SPDX-License-Identifier: MIT

```
pragma solidity ^0.6;
contract Student_management
{
    struct Student {
        int stud_id;
        string name;
        string department;
    }

    Student[] Students;

    function add_stud(int stud_id,string memory name, string memory department) public{
        Student memory stud = Student(stud_id,name,department);
        Students.push(stud);
    }

    function getStudent(int stud_id) public view returns(string memory, string memory){
        for (uint i=0;i<Students.length;i++){
            Student memory stud = Students[i];
            if(stud.stud_id==stud_id){
                return(stud.name,stud.department);
            }
        }
        return("Not Found", "Not Found");
    }
}
```

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-v0.6.0+commit.26b70077.js`. The left sidebar contains navigation icons and a 'DEPLOY & RUN TRANSACTIONS' section. The main editor area shows a Solidity contract named `Student_management` with the following code:

```
1 pragma solidity ^0.6;
2 contract Student_management
3 {
4     struct Student {
5         int stud_id;
```

The right sidebar displays the transaction details for the `add_stud` function. The transaction status is 'true Transaction mined and execution succeed'. The transaction hash is `0x8fc42ff92653962a8a104596ff2640f7396346e38c8ddc7d8ac124a27cfd428b`. The block hash is `0xe1f107125925a12c9c82f9a98d848a4098ace12a7b82731913dfff5ef408576f8f`. The block number is 10. The transaction cost is 95470 gas, and the execution cost is 73282 gas. The input data is `0xbfc...000000`. The decoded input is:

```
{
  "int256 stud_id": "101",
  "string name": "Anurag",
  "string department": "Computer"
}
```

The bottom status bar shows 'No new notifications (Off)'.