

BCT-Practical - 4

CODE

```
// SPDX-License-Identifier: MIT
pragma solidity >=0.7.0;

contract StudentManagement {

    struct Student {
        int stud_id;
        string name;
        string department;
    }

    Student[] private students;

    function addStudent(int stud_id, string memory name, string memory department) public {
        students.push(Student(stud_id, name, department));
    }

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

    // Fallback function — triggered when a transaction is sent to the contract with no matching
    // function
    fallback() external payable {
        students.push(Student(7, "XYZ", "Mechanical"));
    }
}
```