BT Ass4

```solidity
// SPDX-License-Identifier: UNLICENSED

pragma solidity >= 0.7.0;


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("Name Not Found", "Department Not Found");

        }

  fallback() external payable {
```

```solidity
        // Add a default student when Ether is sent to the contract without a function call

        Students.push(Student(999, "Default Student", "Default Department"));


        emit EtherReceived(msg.sender, msg.value);

    }


    receive() external payable {


        emit EtherReceived(msg.sender, msg.value);

    }


    // Event to log Ether received

    event EtherReceived(address indexed sender, uint256 amount);

}
```