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Practical No.4

CODE:

// SPDX-License-Identifier: MIT pragma solidity

>=0.7.0; contract StudentManagement { struct Student { uint256 stud\_id; // Changed to uint256 for positive IDs string Name; string Department;

}

Student[] private Students; // Made it private for encapsulation

// Payable constructor to allow Ether transfer constructor() payable {

// Optional: Initialize state if needed

}

function addStudent(uint256 stud\_id, string memory Name, string memory Department) public {

Student memory stud = Student(stud\_id, Name, Department); Students.push(stud);

} function getStudent(uint256 stud\_id) public view returns (string memory, string memory) { for (uint256 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");

}

// Receive function to handle plain Ether transfers receive() external payable {

// Optional: Handle received Ether, e.g., logging, storing info, etc.

}

// Fallback function fallback() external payable {

// This can be used for specific handling if necessary

// Example: Adding a default student Students.push(Student(7, "XYZ", "Mechanical"));

}

}

OUTPUT:

