// BT Assignment ---------> 4  
  
// SPDX-License-Identifier: UNLICENSED  
pragma solidity ^0.8.0;  
  
// Build the Contract  
contract MarksManagmtSys {  
    // Create a structure for student details  
    struct Student {  
        int ID;  
        string fName;  
        string lName;  
        int marks;  
    }  
  
    address public owner;  
    int public stdCount = 0;  
    mapping(int => Student) public stdRecords;  
  
    // Modifier to restrict access to only the owner  
    modifier onlyOwner {  
        require(owner == msg.sender, "Caller is not the owner");  
        \_;  
    }  
  
    // Constructor to set the owner  
    constructor() {  
        owner = msg.sender;  
    }  
  
    // Create a function to add the new records  
    function addNewRecords(  
        int \_ID,  
        string memory \_fName,  
        string memory \_lName,  
        int \_marks  
    ) public onlyOwner {  
        // Increase the count by 1  
        stdCount = stdCount + 1;  
        // Fetch the student details with the help of stdCount  
        stdRecords[stdCount] = Student(\_ID, \_fName, \_lName, \_marks);  
    }  
  
    // Create a function to add bonus marks  
    function bonusMarks(int \_bonus) public onlyOwner {  
        stdRecords[stdCount].marks = stdRecords[stdCount].marks + \_bonus;  
    }  
}