

```

pragma solidity >=0.4.0<=0.6.0;

contract StudentRegister{

    address public owner;

    mapping (address=>student)students;

    constructor() public {
        owner=msg.sender;
    }

    /**
     *a modifier onlyOwner is created to limit the access to function register
to contract deployer
    */
    modifier onlyOwner {
        require(msg.sender==owner);
        _;
    }
    /**
     *a struct student is defined
    */
    struct student{

        address studentId;
        string name;
        string course;
        uint256 mark1;
        uint256 mark2;
        uint256 mark3;
        uint256 totalMarks;
        uint256 percentage;
        bool isExist;

    }

    function register(address studentId,string memory name,string memory
course,uint256 mark1,uint256 mark2,uint256 mark3) public onlyOwner {

        require(students[studentId].isExist==false,"ha.. ha... Fraud Not
Possible,student details already registered and cannot be altered");

        uint256 totalMarks;
        uint256 percentage;
        /**
         *calculating totalMarks and percentage
        */

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        totalMarks=(mark1+mark2+mark3);

        percentage=(totalMarks/3);

        /**
         *  assigning the student details to a key (studentId)
         */
        students[studentId]=student(studentId,name,course,mark1,mark2,mark
3,totalMarks,percentage,true);
    }

    function getStudentDetails(address studentId) public view returns
(address,string memory,string memory,uint256,uint256){

        /**
         *returning studentId,name,course,totalMarks and percentage of student
to corresponding key
         */
        return(students[studentId].studentId,students[studentId].name,students
[studentId].course,students[studentId].totalMarks,students[studentId].percenta
ge);
    }
}

```