Mastering Embedded System Online Diploma

http://www.learn-in-depth.com/

First Term (Final Project 2)

Student Management System

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My Profile

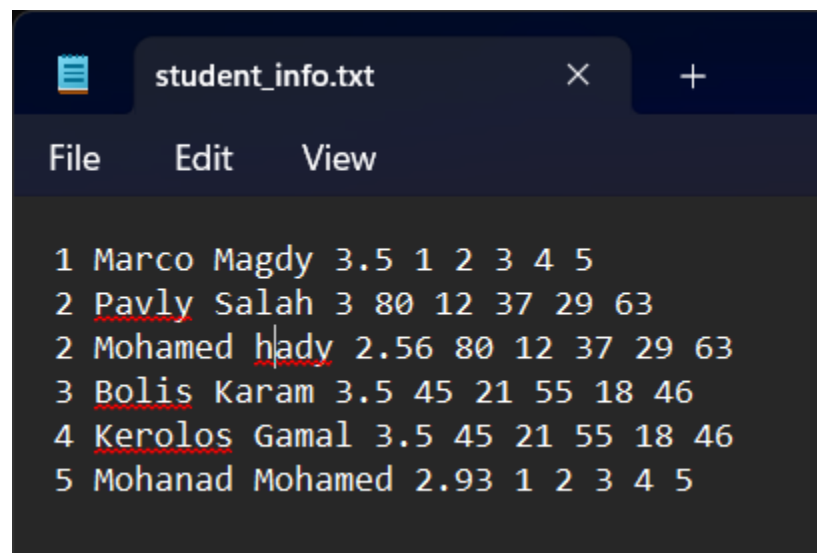https://www.learn-in-depth-store.com/profile/mohanadmohamed18145347/profile

Display

```
Welcome to the Student Management System
Choose the task you want to perform
1. Add the student details manually
2. Add the student details from text file
3. Find the student details by roll number
4. Find the student details by first name
5. Find the student details by course id
6. Find the total number of students
7. Delete the students details by roll number
8. Update the students details by roll number
9. Show all information
10. To Exit
----------------------------------------
Enter your choice to perform the task: 2
----------------------------------------
```

Text file sample

```
student_info.txt                    ×        +

File     Edit     View

1 Marco Magdy 3.5 1 2 3 4 5
2 Pavly Salah 3 80 12 37 29 63
2 Mohamed hady 2.56 80 12 37 29 63
3 Bolis Karam 3.5 45 21 55 18 46
4 Kerolos Gamal 3.5 45 21 55 18 46
5 Mohanad Mohamed 2.93 1 2 3 4 5
```

Add the student details from text file

```
----------------------------------------
Enter your choice to perform the task: 2
----------------------------------------
[INFO] Roll number 1 saved successfully
[INFO] Roll number 2 saved successfully
[ERROR] Roll number 2 is already taken
[INFO] Roll number 3 saved successfully
[INFO] Roll number 4 saved successfully
[INFO] Roll number 5 saved successfully
----------------------------------------
[INFO] The total number of students is 5
[INFO] You can add up to 50 students
[INFO] You can add 45 more students
----------------------------------------
```

Show students information

```
----------------------------------------
Enter your choice to perform the task: 9
----------------------------------------
Student first name: Marco
Student last name: Magdy
Student roll number: 1
Student GPA: 3.50
The course ID is: 1
The course ID is: 2
The course ID is: 3
The course ID is: 4
The course ID is: 5
----------------------------------------
Student first name: Pavly
Student last name: Salah
Student roll number: 2
Student GPA: 3.00
The course ID is: 80
The course ID is: 12
The course ID is: 37
The course ID is: 29
The course ID is: 63
```

```
----------------------------------------
Student first name: Bolis
Student last name: Karam
Student roll number: 3
Student GPA: 3.50
The course ID is: 45
The course ID is: 21
The course ID is: 55
The course ID is: 18
The course ID is: 46
----------------------------------------
Student first name: Kerolos
Student last name: Gamal
Student roll number: 4
Student GPA: 3.50
The course ID is: 45
The course ID is: 21
The course ID is: 55
The course ID is: 18
The course ID is: 46
----------------------------------------
Student first name: Mohanad
Student last name: Mohamed
Student roll number: 5
Student GPA: 2.93
The course ID is: 1
The course ID is: 2
The course ID is: 3
The course ID is: 4
The course ID is: 5
----------------------------------------
```

Add the students manually

```
--------------------------------------
Enter your choice to perform the task: 1
--------------------------------------
Add the student details
------------------------
Enter the roll number: 1
[ERROR] Roll number 1 is already taken
--------------------------------------
Enter your choice to perform the task: 1
--------------------------------------
Add the student details
------------------------
Enter the roll number: 6
Enter the first name of the student: Kareem
Enter the last name of the student: Adel
Enter the GPA you obtained: 2.86
Enter the course ID of each course
Course 1 ID: 3
Course 2 ID: 4
Course 3 ID: 5
Course 4 ID: 6
Course 5 ID: 7
[INFO] Student details is added successfully
--------------------------------------
[INFO] The total number of students is 6
[INFO] You can add up to 50 students
[INFO] You can add 44 more students
--------------------------------------
```

Show students information

```
----------------------------------
Enter your choice to perform the task: 9
----------------------------------
Student first name: Marco
Student last name: Magdy
Student roll number: 1
Student GPA: 3.50
The course ID is: 1
The course ID is: 2
The course ID is: 3
The course ID is: 4
The course ID is: 5
----------------------------------
Student first name: Pavly
Student last name: Salah
Student roll number: 2
Student GPA: 3.00
The course ID is: 80
The course ID is: 12
The course ID is: 37
The course ID is: 29
The course ID is: 63
----------------------------------
Student first name: Bolis
Student last name: Karam
Student roll number: 3
Student GPA: 3.50
The course ID is: 45
The course ID is: 21
The course ID is: 55
The course ID is: 18
The course ID is: 46
```

```
----------------------------------------
Student first name: Kerolos
Student last name: Gamal
Student roll number: 4
Student GPA: 3.50
The course ID is: 45
The course ID is: 21
The course ID is: 55
The course ID is: 18
The course ID is: 46
----------------------------------------
Student first name: Mohanad
Student last name: Mohamed
Student roll number: 5
Student GPA: 2.93
The course ID is: 1
The course ID is: 2
The course ID is: 3
The course ID is: 4
The course ID is: 5
----------------------------------------
Student first name: Kareem
Student last name: Adel
Student roll number: 6
Student GPA: 2.86
The course ID is: 3
The course ID is: 4
The course ID is: 5
The course ID is: 6
The course ID is: 7
----------------------------------------
```

Find the student details by roll number

```
------------------------------------
Enter your choice to perform the task: 3
------------------------------------
Enter the roll number of the student: 50
[ERROR] Roll Number 50 not found
------------------------------------
Enter your choice to perform the task: 3
------------------------------------
Enter the roll number of the student: 2
Student first name: Pavly
Student last name: Salah
Student roll number: 2
Student GPA: 3.00
The course ID is: 80
The course ID is: 12
The course ID is: 37
The course ID is: 29
The course ID is: 63
```

Find the student details by first name

```
------------------------------------
Enter your choice to perform the task: 4
------------------------------------
Enter the first name of the student: mohanad
Student first name: Mohanad
Student last name: Mohamed
Student roll number: 5
Student GPA: 2.93
The course ID is: 1
The course ID is: 2
The course ID is: 3
The course ID is: 4
The course ID is: 5
------------------------------------
Enter your choice to perform the task: 4
------------------------------------
Enter the first name of the student: john
[ERROR] First name john not found
```

Find the student details by course id

```
----------------------------------------
Enter your choice to perform the task: 5
----------------------------------------
Enter the course ID: 20
[ERROR] Course id 20 not found.
----------------------------------------
Enter your choice to perform the task: 5
----------------------------------------
Enter the course ID: 1
Student first name: Marco
Student last name: Magdy
Student roll number: 1
Student GPA: 3.50
Student first name: Mohanad
Student last name: Mohamed
Student roll number: 5
Student GPA: 2.93
----------------------------------------
Enter your choice to perform the task: 5
----------------------------------------
Enter the course ID: 46
Student first name: Bolis
Student last name: Karam
Student roll number: 3
Student GPA: 3.50
Student first name: Kerolos
Student last name: Gamal
Student roll number: 4
Student GPA: 3.50
```

Find the total number of students

```
Enter your choice to perform the task: 6
---------------------------------------
[INFO] The total number of students is 6
[INFO] You can add up to 50 students
[INFO] You can add 44 more students
---------------------------------------
```

Delete the student details by roll number

```
Enter your choice to perform the task: 7
---------------------------------------
Enter the roll number which you want to delete: 55
[ERROR] This roll number 55 is not found
---------------------------------------
Enter your choice to perform the task: 7
---------------------------------------
Enter the roll number which you want to delete: 6
---------------------------------------
Enter your choice to perform the task: 7
---------------------------------------
Enter the roll number which you want to delete: 1
---------------------------------------
```

Show students information

```
---------------------------------------
Enter your choice to perform the task: 9
---------------------------------------
Student first name: Bolis
Student last name: Karam
Student roll number: 3
Student GPA: 3.50
The course ID is: 45
The course ID is: 21
The course ID is: 55
The course ID is: 18
The course ID is: 46
```

```
----------------------------------------
Student first name: Kerolos
Student last name: Gamal
Student roll number: 4
Student GPA: 3.50
The course ID is: 45
The course ID is: 21
The course ID is: 55
The course ID is: 18
The course ID is: 46
----------------------------------------
Student first name: Mohanad
Student last name: Mohamed
Student roll number: 5
Student GPA: 2.93
The course ID is: 1
The course ID is: 2
The course ID is: 3
The course ID is: 4
The course ID is: 5
----------------------------------------
Student first name: Pavly
Student last name: Salah
Student roll number: 2
Student GPA: 3.00
The course ID is: 80
The course ID is: 12
The course ID is: 37
The course ID is: 29
The course ID is: 63
----------------------------------------
```

Update the student details by roll number

```
-------------------------------------
Enter your choice to perform the task: 8
-------------------------------------
Enter the roll number to update the entry: 1
[ERROR] Roll number not found
-------------------------------------
Enter your choice to perform the task: 8
-------------------------------------
Enter the roll number to update the entry: 5
1. first name
2. last name
3. roll no.
4. GPA
5. courses
2
Enter the new last name: Eissa
-------------------------------------
Enter your choice to perform the task: 8
-------------------------------------
Enter the roll number to update the entry: 5
1. first name
2. last name
3. roll no.
4. GPA
5. courses
5
Course 1 ID: 6
Course 2 ID: 7
Course 3 ID: 8
Course 4 ID: 9
Course 5 ID: 10
-------------------------------------
```

Show students information

```
Enter your choice to perform the task: 9
-----------------------------------
Student first name: Bolis
Student last name: Eissa
Student roll number: 3
Student GPA: 3.50
The course ID is: 6
The course ID is: 7
The course ID is: 8
The course ID is: 9
The course ID is: 10
-----------------------------------
Student first name: Kerolos
Student last name: Gamal
Student roll number: 4
Student GPA: 3.50
The course ID is: 45
The course ID is: 21
The course ID is: 55
The course ID is: 18
The course ID is: 46
-----------------------------------
Student first name: Mohanad
Student last name: Mohamed
Student roll number: 5
Student GPA: 2.93
The course ID is: 1
The course ID is: 2
The course ID is: 3
The course ID is: 4
The course ID is: 5
-----------------------------------
```

```
----------------------------------------
Student first name: Pavly
Student last name: Salah
Student roll number: 2
Student GPA: 3.00
The course ID is: 80
The course ID is: 12
The course ID is: 37
The course ID is: 29
The course ID is: 63
----------------------------------------
----------------------------------------
Enter your choice to perform the task:
```