Mastering Embedded System Online Diploma

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First Term (Final Project 2)

Eng. Ahmed Sameh

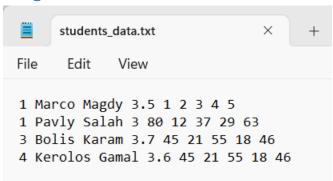
My Profile: https://www.learn-in-depth.com/online-diploma/ahmeds.elshahid%40gmail.com

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Codes:

Program's Screenshots:



```
[INFO] initialized the queue successfully[INFO] initialized the buffer
Welcome to the Student Management System
Choose The Task that 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 Student's Details by Roll Number
8. Update The Student's Details by Roll Number
9. Show All Information
10. To Exit
Enter Your choice to perform the Task: 2
[INFO] Roll Number 1 saved successfully
[ERROR] Roll Number 1 is already taken
[INFO] Roll Number 3 saved successfully
[INFO] Roll Number 4 saved successfully
[INFO] Students Details is added Successfully
[INFO] The total number of students is: 3
[INFO] You can add up to 55 students
[INFO] You can add 52 more students
```

```
Choose The Task that you want to perform

    Add The Student Details Manually

Add The Student Details From Text File
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 Student's Details by Roll Number
8. Update The Student's Details by Roll Number
9. Show All Information
10. To Exit
Enter Your choice to perform the Task: 3
Enter the Roll Number of the student: 4
The student's details are:
The First Name is Kerolos
The Last Name is Gamal
The GPA is 3.60
The course ID of each course
The ID of Course 1 ID is: 45
The ID of Course 2 ID is: 21
The ID of Course 3 ID is: 55
The ID of Course 4 ID is: 18
The ID of Course 5 ID is: 46
```

```
Choose The Task that you want to perform
1. Add The Student Details Manually
2. Add The Student Details From Text File
Find The Student Details by Roll Number
4. Find The Student Details by First Name
Find The Student Details by Course ID
6. Find The Total Number of Students
7. Delete The Student's Details by Roll Number
8. Update The Student's Details by Roll Number
9. Show All Information
10. To Exit
Enter Your choice to perform the Task: 4
Enter the first name of the student: Ahmed
The student's details are:
The First Name is Ahmed
The Last Name is Sameh
The Roll Number is 2
The GPA is 3.40
The course ID of each course
The ID of Course 1 ID is: 40
The ID of Course 2 ID is: 50
The ID of Course 3 ID is: 30
The ID of Course 4 ID is: 29
The ID of Course 5 ID is: 60
```

```
Choose The Task that you want to perform

    Add The Student Details Manually

2. Add The Student Details From Text File

    Find The Student Details by Roll Number
    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 Student's Details by Roll Number
8. Update The Student's Details by Roll Number
9. Show All Information
10. To Exit
Enter Your choice to perform the Task: 5
Enter The course ID: 50
The student's details are:
The First Name is Ahmed
The Last Name is Sameh
The Roll Number is 2
.The GPA is 3.40
The course ID of each course
The ID of Course 1 ID is: 40
The ID of Course 2 ID is: 50
The ID of Course 3 ID is: 30
The ID of Course 4 ID is: 29
The ID of Course 5 ID is: 60
```

```
Choose The Task that you want to perform
L. Add The Student Details Manually
. Add The Student Details From Text File
3. Find The Student Details by Roll Number
1. Find The Student Details by First Name
5. Find The Student Details by Course ID
5. Find The Total Number of Students

    Delete The Student's Details by Roll Number
    Update The Student's Details by Roll Number

. Show All Information
LO. To Exit
nter Your choice to perform the Task: 8
nter the roll number to update the entry: 1
 . first name
 . last name
 . roll number
 . GPA
. courses
nter the new GPA: 3.85
[INFO] UPDATED SUCCESSFULLY.
```

```
Choose The Task that you want to perform

    Add The Student Details Manually

Add The Student Details From Text File

    Find The Student Details by Roll Number
    Find The Student Details by First Name

5. Find The Student Details by Course ID
6. Find The Total Number of Students
Delete The Student's Details by Roll Number
8. Update The Student's Details by Roll Number
9. Show All Information
10. To Exit
Enter Your choice to perform the Task: 9
_____
The student's details are:
The First Name is Bolis
The Last Name is Karam
The Roll Number is 3
The GPA is 3.70
The course ID of each course
The ID of Course 1 ID is: 45
The ID of Course 2 ID is: 21
The ID of Course 3 ID is: 55
The ID of Course 4 ID is: 18
The ID of Course 5 ID is: 46
The student's details are:
The First Name is Kerolos
The Last Name is Gamal
The Roll Number is 4
The GPA is 3.60
The course ID of each course
The ID of Course 1 ID is: 45
```

```
he Last Name is Gamal
he Roll Number is 4
The GPA is 3.60
he course ID of each course
he ID of Course 1 ID is: 45
he ID of Course 2 ID is: 21
he ID of Course 3 ID is: 55
he ID of Course 4 ID is: 18
he ID of Course 5 ID is: 46
he student's details are:
he First Name is Marco
he Last Name is Magdy
he Roll Number is 1
he GPA is 3.85
he course ID of each course
he ID of Course 1 ID is: 1
he ID of Course 2 ID is: 2
he ID of Course 3 ID is: 3
he ID of Course 4 ID is: 4
he ID of Course 5 ID is: 5
hoose The Task that you want to perform
. Add The Student Details Manually
. Add The Student Details From Text File
. Find The Student Details by Roll Number
. Find The Student Details by First Name
. Find The Student Details by Course ID
. Find The Total Number of Students
. Delete The Student's Details by Roll Number
. Update The Student's Details by Roll Number
. Show All Information
.O. To Exit
```