Mastering Embedded System Online Diploma

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First Term (Final Project2)

Report for "Student Management System" project

Name: Mostafa Mohamed Mourad

Mail: mostafamourad108@gmail.com

Githup repo:

https://github.com/mostafamohamedmahmoudmourad/Embedded_
System_Online_Diploma/tree/master

My profile:

https://www.learn-in-depth.com/certificates-2023

1. Add the Student Details From Text File

```
fifo init ----- Done
Welcome to the Student Management System


        ============================

        Choose The Task that you want to perform

        1. Add the Student Details From Text File

        2. Add the Student Detials Manually

        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: 1

        ============================
Enter file Name: read.txt
[INFO] Roll Number 1 saved successfully
[INFO] Roll Number 2 saved successfully
[INFO] Students Details is added Successfully
--------------------------------
[INFO] The total number of Student is 2
[INFO] You can add up to 5 Students
[INFO] You can add 3 more Student is

        ============================
```
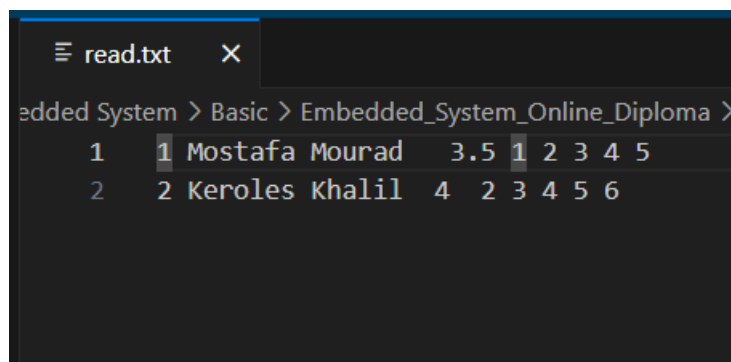
read.txt

```
≡ read.txt    ✕

edded System > Basic > Embedded_System_Online_Diploma >
    1      1 Mostafa Mourad    3.5 1 2 3 4 5
    2      2 Keroles Khalil    4   2 3 4 5 6
```

2. Add the Student Detials Manually

```
                        1. Add the Student Details From Text File

                        2. Add the Student Detials Manually

                        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


 ============================
 Add the Students Detials
 ------------------------
 Enter the Roll Number: 1
 Enter the first name of student: Mostafa
 Enter the last name of student: Mohamed
 Enter the GPA you obtained: 3.5
 Enter the course ID of each course
 Course 1 id: 2
 Course 2 id: 3
 Course 3 id: 4
 Course 4 id: 5
 Course 5 id: 6
 [INFO] Students Details is added Successfully
 -------------------------------
 [INFO] The total number of Student is 1
 [INFO] You can add up to 5 Students
 [INFO] You can add 4 more Student is
```

```
        1. Add the Student Details From Text File

        2. Add the Student Detials Manually

        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


 ============================
Add the Students Detials
------------------------
Enter the Roll Number: 2
Enter the first name of student: Mostafa
Enter the last name of student: Mourad
Enter the GPA you obtained: 3.5
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] Students Details is added Successfully
 --------------------------------
[INFO] The total number of Student is 2
[INFO] You can add up to 5 Students
[INFO] You can add 3 more Student is
```

```
        1. Add the Student Details From Text File

        2. Add the Student Detials Manually

        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

 ===========================
Add the Students Detials
------------------------
Enter the Roll Number: 3
Enter the first name of student: Mahmoud
Enter the last name of student: Mourad
Enter the GPA you obtained: 3.8
Enter the course ID of each course
Course 1 id: 1
Course 2 id: 3
Course 3 id: 5
Course 4 id: 7
Course 5 id: 9
[INFO] Students Details is added Successfully
 -------------------------------
[INFO] The total number of Student is 3
[INFO] You can add up to 5 Students
[INFO] You can add 2 more Student is
```

3. Find the Student Details by Roll Number

```
============================

        Choose The Task that you want to perform

        1. Add the Student Details From Text File

        2. Add the Student Detials Manually

        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: 3


 ==========================
 ---------------------------------
Enter the Roll Number of the student: 2
The Students Details are
The First name is Mostafa
The Last name is Mourad
The GPA is 3.5
Courses:
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


 ==========================
```

4. Find the Student Details by First Name

```
============================

        Choose The Task that you want to perform

        1. Add the Student Details From Text File

        2. Add the Student Detials Manually

        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: 4

 ============================
 --------------------------------
Enter the first name of the student: Mahmoud
 --------------------------------
The Students Details are
The First name is Mahmoud
The Last name is Mourad
The Roll Number is 3The GPA is 3.8
Courses:
The Course ID is: 1
The Course ID is: 3
The Course ID is: 5
The Course ID is: 7
The Course ID is: 9

 --------------------------
```

5. Find the Student Details by Course ID

```
============================
        Choose The Task that you want to perform

        1. Add the Student Details From Text File

        2. Add the Student Detials Manually

        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: 5

============================
---------------------------------
Enter the Course ID: 9
---------------------------------
The Students Details are
The First name is Mahmoud
The Last name is Mourad
The Roll Number is 3 The GPA is 3.8
[INFO] Total Number of Students Enrolled: 1

============================
```

6. Find the Total number of Students

```
============================
        Choose The Task that you want to perform

        1. Add the Student Details From Text File

        2. Add the Student Detials Manually

        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: 6

============================
---------------------------------
[INFO] The total number of Student is 3
[INFO] You can add up to 5 Students
[INFO] You can add 2 more Student is

============================
```

8. Update the Students Details by Roll Number

```
          Choose The Task that you want to perform

          1. Add the Student Details From Text File

          2. Add the Student Detials Manually

          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: 8

 ============================
 ----------------------------------
Enter the roll number to update the entry: 1
1. First name
2. Last name
3. Roll number
4. GPA
5. courses
5
enter the new Course 1 id: 1
enter the new Course 2 id: 2
enter the new Course 3 id: 3
enter the new Course 4 id: 4
enter the new Course 5 id: 5
[INFO] UPDATED SUCCESSFULLY

 ============================
```

9. Show all information

```
          8. Update the Students Details by Roll Number

          9. Show all information

          10. To Exit

 Enter your choice to perform the task: 9

  ============================
 --------------------------------
Student first name: Mostafa
Student last name: Mohamed
Student roll number: 1
Student GPA number: 3.5
The Course ID is: 2
The Course ID is: 3
The Course ID is: 4
The Course ID is: 5
The Course ID is: 6
 --------------------------------
Student first name: Mostafa
Student last name: Mourad
Student roll number: 2
Student GPA number: 3.7
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
 --------------------------------
Student first name: Mahmoud
Student last name: Mourad
Student roll number: 3
Student GPA number: 3.8
The Course ID is: 1
The Course ID is: 3
The Course ID is: 5
The Course ID is: 7
The Course ID is: 9
 --------------------------------
```

AFTER UPDATE

```
          8. Update the Students Details by Roll Number

          9. Show all information

          10. To Exit

 Enter your choice to perform the task: 9

  ============================
 --------------------------------
Student first name: Mostafa
Student last name: Mohamed
Student roll number: 1
Student GPA number: 3.5
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: Mostafa
Student last name: Mourad
Student roll number: 2
Student GPA number: 3.7
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
 --------------------------------
Student first name: Mahmoud
Student last name: Mourad
Student roll number: 3
Student GPA number: 3.8
The Course ID is: 1
The Course ID is: 3
The Course ID is: 5
The Course ID is: 7
The Course ID is: 9
 --------------------------------
```

10. To Exit

```
===========================

        Choose The Task that you want to perform

        1. Add the Student Details From Text File

        2. Add the Student Detials Manually

        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: 10

===========================
======== THANK YOU ========
```