

Mastering Embedded system online diploma

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First project: Student data management

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1.Add students from file:

Type the name of file to extract data from it.

Choose one of the following options

1. Add student from file
2. Add student manually
3. Find student by roll number
4. Find student by first name
5. Find student registered in course
6. Print students count
7. Delete student by roll number
8. Update student by roll number
9. Exit

1

Enter Name of File to read it `studentData.txt`

Roll Number 1 added successfully
Roll Number 2 added successfully
Roll Number 3 added successfully
Roll Number 4 added successfully
Roll Number 5 added successfully

=====

➤ Student's data in the file:

```
1 amr ahmed 3.5 1 2 3 4 5
2 mohammed sameh 4 1 3 5 7 9
3 amr mostafa 3.7 1 3 4 6 8
4 marwan saleh 3.9 2 4 6 7 8
5 kareem wael 3.6 1 4 2 6 3
```

2. Add student manually:

When we try to add student manually, we enter repeated roll number so we can't add Two student with the same roll number.

Choose one of the following options

1. Add student from file
2. Add student manually
3. Find student by roll number
4. Find student by first name
5. Find student registered in course
6. Print students count
7. Delete student by roll number
8. Update student by roll number
9. Exit

2

Enter Student Roll number: 2

Roll number 2 is Repeated Roll Number
=====

3.Delete student by roll number:

We enter the roll number of student we want to delete and if the roll number is existed it will be deleted successfully.

Choose one of the following options

1. Add student from file
2. Add student manually
3. Find student by roll number
4. Find student by first name
5. Find student registered in course
6. Print students count
7. Delete student by roll number
8. Update student by roll number
9. Exit

7

Enter Roll number to be deleted: 2

Deleted successfully

=====

4.Find students by first name:

Enter the name we want to search for, and it will show all the student data with this name.

Choose one of the following options

1. Add student from file
2. Add student manually
3. Find student by roll number
4. Find student by first name
5. Find student registered in course
6. Print students count
7. Delete student by roll number
8. Update student by roll number
9. Exit

4

Enter Student First name: amr

```
Student Roll_No: 1
Student First Name: amr
Student Last Name: ahmed
Student GPA: 3.50
Student Courses IDs: 1, 2, 3, 4, 5,
=====
Student Roll_No: 3
Student First Name: amr
Student Last Name: mostafa
Student GPA: 3.70
Student Courses IDs: 1, 3, 4, 6, 8,
=====
```

5.Find student by roll number:

Enter the roll number we want to search for and if this number is exist it will show student data.

Choose one of the following options

1. Add student from file
2. Add student manually
3. Find student by roll number
4. Find student by first name
5. Find student registered in course
6. Print students count
7. Delete student by roll number
8. Update student by roll number
9. Exit

3

Enter Student Roll Number: 2

Student with Roll_No: 2

Student First Name: mohammed

Student Last Name: sameh

Student GPA: 4.00

Student Courses IDs: 1 3 5 7 9

=====

6. Print student's counter:

Choose one of the following options

1. Add student from file
2. Add student manually
3. Find student by roll number
4. Find student by first name
5. Find student registered in course
6. Print students count
7. Delete student by roll number
8. Update student by roll number
9. Exit

6

Total number of Students are: 5

=====

7.Update Student data:

Enter the roll number of student we want to Update his data then
Choose the data we want to update.

```
Choose one of the following options

1. Add student from file
2. Add student manually
3. Find student by roll number
4. Find student by first name
5. Find student registered in course
6. Print students count
7. Delete student by roll number
8. Update student by roll number
9. Exit
8

Enter roll number to update: 3

1. First name
2. last name
3. roll number
4. GPA
5. Courses
3

Enter the new roll number 2

=====Updated successfully=====
=====
```

8.Find students registered in course:

Enter Course id and it will show all students registered in this course.

Choose one of the following options

1. Add student from file
2. Add student manually
3. Find student by roll number
4. Find student by first name
5. Find student registered in course
6. Print students count
7. Delete student by roll number
8. Update student by roll number
9. Exit

5

Enter Course ID: 2

The Student Details are

First Name is amr

Last Name is ahmed

Roll number is 1

Student GPA 3.50

The Student Details are

First Name is marwan

Last Name is saleh

Roll number is 4

Student GPA 3.90

The Student Details are

First Name is kareem

Last Name is wael

Roll number is 5

Student GPA 3.60