

#### STUDENT MANAGEMENT SYSTEM

PRESENTED TO

Keroles Shenouda

PRESENTED BY

Guirguis Hedia Henan

1-8-2023



#### GitHub

#### File Structure

- ✓ Project\_2
  - > 🐉 Binaries
  - > 🛍 Includes
  - Student\_Mangement\_Database
    - 🗸 🗁 inc
      - > In Student\_Mangement\_Database.h
    - > Student\_Mangement\_Database.c
  - - 🗸 🗁 inc
      - > In Student\_Mangement\_Queue.h
    - > C Student\_Mangement\_Queue.c
  - - 🗸 🗁 inc
      - > In Student\_Mangement\_System.h
    - Student\_Mangement\_System.c
  - > 📂 Debug
  - > c main.c
    - Student\_Database.txt





#### Features

1 Add Student Manually

Find The Total Number of Students

- Add Students from Text file
- Delete the Student

  Details By Roll Number
- Find The Student Details

  By the Roll Number
- 7 <u>Update the Student</u> <u>Details By Roll Number</u>
- Find The Student Details

  By the First Name
- 8 <u>Show all Information</u>
- Find The Student Details

  By the Course ID





- Asking the User to Enter The ID
   ,first Name ,Last Name ,GPA and
   Courses IDs
- Check if the Roll Number within Range [1~2000]
- Check if the First Name and The Last Name with no Error in Syntax
- Check if GPA with no Error in Syntax

Check if the Roll Number is Used





```
Choose The Task that you want to perform :
   Add Student Details Manually
Add Student Details From Text File
3. Find The Student Details By the Roll Number
4. Find The Student Details By the First Name
5. Find The Student Details By the Course ID
6. Find The Total Number of Students
7. Delete the Student Details By Roll Number
8. Update the Student Details By Roll Number
9. Show all Information
10. To Exit
Enter Your Choice to Perform the Task:1
_____
Add The Students Details :
Enter The Roll Number [1 ~ 2000]:5
Enter The First Name of the Student [Max 20 Char]: Ephraim
Enter The Last Name of the Student [Max 20 Char]: Hedia
Enter The GPA you obtained [0 ~ 5]:4
Course 1 ID :1
Course 2 ID :2
Course 3 ID :3
Course 4 ID :4
Course 5 ID :5
[INFO] Student Details is added Successfully
[INFO] The Total Number of Student is 1
[INFO] You Can add up to 50 Student
[INFO] You Can add 49 more Student
```

Asking the User to Enter The ID
 ,first Name ,Last Name ,GPA and
 Courses IDs







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

    Add Student Details Manually

2. Add Student Details From Text File
Find The Student Details By the Roll Number
4. Find The Student Details By the First Name
5. Find The Student Details By the Course ID
6. Find The Total Number of Students
7. Delete the Student Details By Roll Number
8. Update the Student Details By Roll Number
9. Show all Information
10. To Exit
Enter Your Choice to Perform the Task:1
Add The Students Details :
Enter The Roll Number [1 ~ 2000]:2200
You Enter Wrong Syntax
Enter The Roll Number [1 ~ 2000]:200
Enter The First Name of the Student [Max 20 Char]: Ephraim
Enter The Last Name of the Student [Max 20 Char]: Hedia
Enter The GPA you obtained [0 ~ 5]:4.5
Course 1 ID :1
Course 2 ID :2
Course 3 ID :3
Course 4 ID :4
Course 5 ID :5
「TNFO] Student Details is added Successfully
```

• Check if the Roll Number within Range [1~2000]





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

    Add Student Details Manually

2. Add Student Details From Text File
3. Find The Student Details By the Roll Number
4. Find The Student Details By the First Name
5. Find The Student Details By the Course ID
6. Find The Total Number of Students
7. Delete the Student Details By Roll Number
8. Update the Student Details By Roll Number
Show all Information
10. To Exit
Enter Your Choice to Perform the Task:1
Add The Students Details :
Enter The Roll Number [1 ~ 2000]:20
Enter The First Name of the Student [Max 20 Char]:Ephraim Hedia Henan And e
You Enter Wrong Syntax
Enter The First Name of the Student [Max 20 Char]: Ephraim
Enter The Last Name of the Student [Max 20 Char]:Ephraim Hedia Henan And e
You Enter Wrong Syntax
Enter The Last Name of the Student [Max 20 Char]:Hedia
Enter The GPA you obtained [0 ~ 5]:4.5
Course 1 ID :1
Course 2 ID :2
Course 3 ID :3
Course 4 ID :4
Course 5 ID :5
[INFO] Student Details is added Successfully
```

 Check if the First Name and The Last Name with no Error in Syntax





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

    Add Student Details Manually

2. Add Student Details From Text File
3. Find The Student Details By the Roll Number
4. Find The Student Details By the First Name
5. Find The Student Details By the Course ID
6. Find The Total Number of Students
7. Delete the Student Details By Roll Number
8. Update the Student Details By Roll Number
9. Show all Information
10. To Exit
Enter Your Choice to Perform the Task:1
______
Add The Students Details :
Enter The Roll Number [1 ~ 2000]:20
Enter The First Name of the Student [Max 20 Char]: Ephraim
Enter The Last Name of the Student [Max 20 Char]: Hedia
Enter The GPA you obtained [0 ~ 5]:6
You Enter Wrong Syntax
Enter The GPA you obtained [0 ~ 5]:-1
You Enter Wrong Syntax
Enter The GPA you obtained [0 ~ 5]:3.5
Course 1 ID :1
Course 2 ID :2
Course 3 ID :3
Course 4 ID :4
Course 5 ID :5
[INFO] Student Details is added Successfully
```

 Check if GPA with no Error in Syntax







#### Add Students from Text file

- Add The Students from Text File and if Adding Finish Correctly print Total Number of Students
- Check if NO Repeated Roll Number
- Check if the File NOT Open Correctly
- Check if The file Format not Correct







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

    Add Student Details Manually

Add Student Details From Text File
  Find The Student Details By the Roll Number
  Find The Student Details By the First Name
   Find The Student Details By the Course ID
6. Find The Total Number of Students
7. Delete the Student Details By Roll Number
   Update the Student Details By Roll Number
9. Show all Information
10. To Exit
Enter Your Choice to Perform the Task:2
                                          NO Repeated Roll Numbers
[INFO] File Reading Done
[INFO] Roll Number 1 is Added Successfully -
                                               → Roll Number =1.
[INFO] Roll Number 2 is Added Successfully—
                                                  Roll Number = 2
[INFO] Roll Number 3 is Added Successfully.
                                                   Roll Number =3
[INFO] Roll Number 4 is Added Successfully
[INFO] Roll Number 5 is Added Successfully_
                                                   Roll Number =4
                                                   Roll Number =5
[INFO] The Total Number of Student is 5
[INFO] You Can add up to 50 Student
[INFO] You Can add 45 more Student
```

#### Add Students from Text file

 Add The Students from Text File and if Adding Finish Correctly print Total Number of Students







Choose The Task that you want to perform : Add Student Details Manually Add Student Details From Text File Find The Student Details By the Roll Number Find The Student Details By the First Name 5. Find The Student Details By the Course ID 6. Find The Total Number of Students 7. Delete the Student Details By Roll Number 8. Update the Student Details By Roll Number 9. Show all Information 10. To Exit Enter Your Choice to Perform the Task:2 [INFO] File Reading Done [INFO] Roll Number 1 is Added Successfully [INFO] Roll Number 2 is Added Successfully [INFO] Roll Number 3 is Added Successfully [INFO] Roll Number 4 is Added Successfully [INFO] Roll Number 5 is Added Successfully [ERROR] Roll Number 5 is Already Taken Repeated Roll Number [INFO] The Total Number of Student is 5 Total Students Number is 5 Only [INFO] You Can add up to 50 Student [INFO] You Can add 45 more Student

#### Add Students from Text file

 Check if NO Repeated Roll Number





```
INDUL LITE DO
linked list student project
                                           .. (mpt.tel
                                                                              Tubar rue pe
male inked_list_student_project
                                                                              Student
                                           * @param[in]
mid_Ex1
                                                                              Copy u32NumberOfR
                                           * @param[in]
  mid Ex10
                                           * @retval
                                                                             SMD Error t
  i mid Ex2
                                                                             You Must Write THe
                                      105
                                           * Note
  mid Ex3
                                     106
                                                                              and Separated each
  mid Ex4
                                                                             File Name Must be
  mid Ex5
                                     107
  mid Ex6
                                     108
                                                                              No Check Syntax Fe
  mid Ex7
  mid Ex8
                                     110
  mid Ex9
                                     111
  PaymentApplication2
                                    112@SMD_Error_t SMD_AddStudentFromTextFile(sStudentDet
  Pointer Ex1
                                    113
  Pointer Ex2
                                     114
  Pointer Ex3
                                              unsigned int Local u32NumberOfReading = 0;
                                     115
  Pointer Ex4
                                              FILE *file ;
  Pointer Ex5
                                     117
                                                                            File Name Not Correct
  Project 1
                                     118

✓ 
Project 2

                                               *Copy u32NumberOfRecords = 0;
  > 🚜 Binaries
                                              file =fopen("NotCorrectName.txt", "r");
  > 🗿 Includes
                                     121
                                              if(file == NULL)
  > 📂 Debug
                                     122
  > c main.c
                                     123
                                                   return SMD FILE NOT OPEN;
  > C Student_Mangement_Database.c
                                    124
  > In Student Mangement Database.h
                                     125
  > C Student_Mangement_Queue.c
                                     126
  > In Student_Mangement_Queue.h
                                               do
                                     127
  > C Student_Mangement_System.c
                                     128
                                                   Local_u32NumberOfReading =fscanf(file, "%20
  h Student_Mangement_System.h
     Student Database.txt -
                                     129
                                                            Student->FirstName,
  String_Ex1
                                     130
                                                            Student->LastName,
  String Ex2
                                     131
                                                            &(Student->RollNumber),
  string_Ex3
                                     132
                                                            &(Student->GPA),
  Struct Ex1
                                    133
                                                            &(Student->CourseIDs[0]),
   Struct Ex2
                                                            0/c+...--- \C-...--TD-[41\
```

#### Add Students from Text file

 Check if the File NOT Open Correctly



#### **Learn-in-Depth**



Choose The Task that you want to perform : Add Student Details Manually 2. Add Student Details From Text File 3. Find The Student Details By the Roll Number 4. Find The Student Details By the First Name 5. Find The Student Details By the Course ID 6. Find The Total Number of Students 7. Delete the Student Details By Roll Number 8. Update the Student Details By Roll Number 9. Show all Information File Not Open Because File Name Not 10. To Exit Enter Your Choice to Perform the Task:2 [ERROR] File Not OPEN [INFO] The Total Number of Student is 0 [INFO] You Can add up to 50 Student [INFO] You Can add 50 more Student

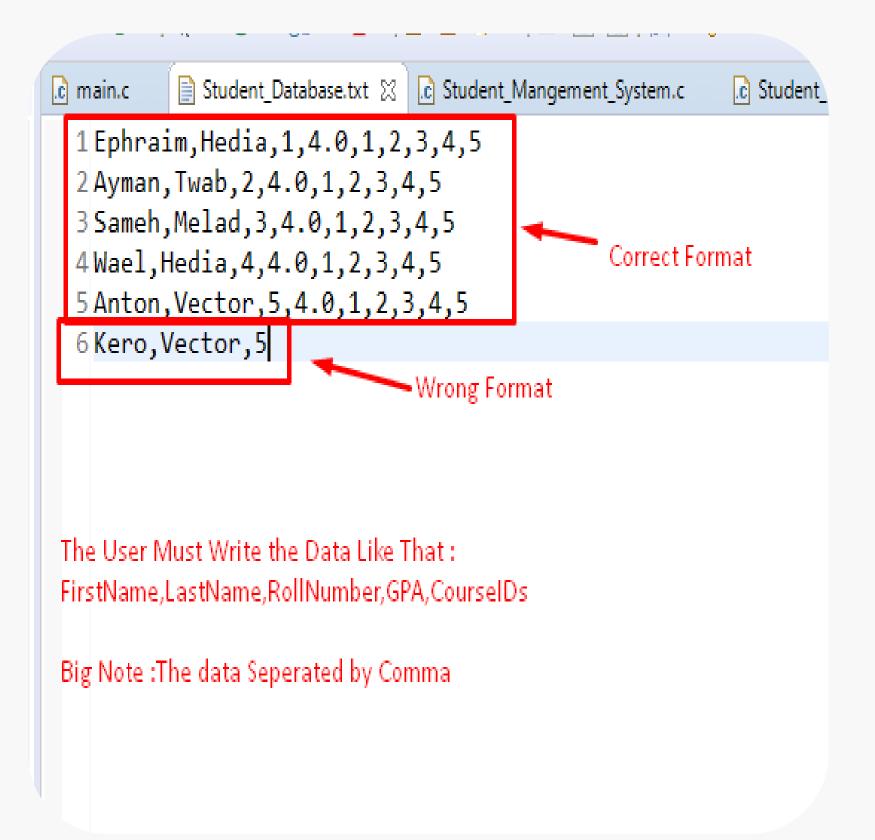
#### Add Students from Text file

 Check if the File NOT Open Correctly









#### Add Students from Text file

 Check if The file Format not Correct





Choose The Task that you want to perform :

- 1. Add Student Details Manually
- 2. Add Student Details From Text File
- 3. Find The Student Details By the Roll Number
- 4. Find The Student Details By the First Name
- 5. Find The Student Details By the Course ID
- 6. Find The Total Number of Students
- 7. Delete the Student Details By Roll Number
- 8. Update the Student Details By Roll Number
- 9. Show all Information
- 10. To Exit

Enter Your Choice to Perform the Task:2 [ERROR] Wrong File Format , Please Make Sure You Write a Correct Foramt	
	OUTPUT if You Write the data with Wrong Format
[INFO] The Total Number of Student is 0	
[INFO] You Can add up to 50 Student	
[INFO] You Can add 50 more Student	

#### Add Students from Text file

 Check if The file Format not Correct





# Find The Student Details By the Roll Number





Choose The Task that you want to perform :

Add Student Details Manually

#### Add Student Details From Text File

- 3. Find The Student Details By the Roll Number
- 4. Find The Student Details By the First Name
- 5. Find The Student Details By the Course ID
- 6. Find The Total Number of Students
- 7. Delete the Student Details By Roll Number
- 8. Update the Student Details By Roll Number
- 9. Show all Information
- 10. To Exit

Enter Your Choice to Perform the Task:2

[INFO] File Reading Done

[INFO] Roll Number 1 is Added Successfully

[INFO] Roll Number 2 is Added Successfully

[INFO] Roll Number 3 is Added Successfully

[INFO] Roll Number 4 is Added Successfully

[INFO] Roll Number 5 is Added Successfully

[INFO] The Total Number of Student is 5

[INFO] You Can add up to 50 Student

[INFO] You Can add 45 more Student

First We Add the Students in the Text File into the Database to Can Use Them

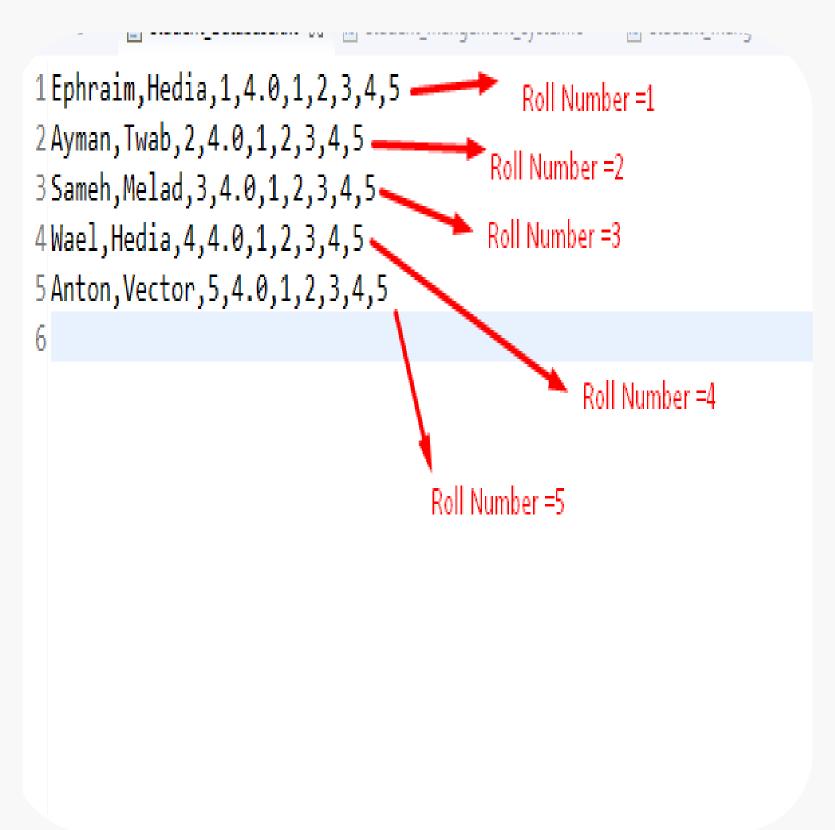
## Find The Student Details By the Roll Number

 We add First the Students in the Text file into the Database to Use them in Our Check









## Find The Student Details By the Roll Number

• [NOTE] Students Information in the Text File





Choose The Task that you want to perform :

- Add Student Details Manually
- 2. Add Student Details From Text File
- 3. Find The Student Details By the Roll Number
- 4. Find The Student Details By the First Name
- 5. Find The Student Details By the Course ID
- 6. Find The Total Number of Students
- 7. Delete the Student Details By Roll Number
- 8. Update the Student 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 :1
The Student Details are :
Student First Name : Ephraim
Student Last Name : Hedia

Student Roll Number : 1 Student GPA : 4.000000

The Course ID are 1 The Course ID are 2 The Course ID are 3 The Course ID are 4

The Course ID are 5

### Find The Student Details By the Roll Number

The Output of the Searching







# Find The Student Details By the First Name





Choose The Task that you want to perform :

Add Student Details Manually

#### Add Student Details From Text File

- 3. Find The Student Details By the Roll Number
- 4. Find The Student Details By the First Name
- 5. Find The Student Details By the Course ID
- 6. Find The Total Number of Students
- 7. Delete the Student Details By Roll Number
- 8. Update the Student Details By Roll Number
- 9. Show all Information
- 10. To Exit

Enter Your Choice to Perform the Task:2

[INFO] File Reading Done

[INFO] Roll Number 1 is Added Successfully

[INFO] Roll Number 2 is Added Successfully

[INFO] Roll Number 3 is Added Successfully

[INFO] Roll Number 4 is Added Successfully

[INFO] Roll Number 5 is Added Successfully

[INFO] The Total Number of Student is 5

[INFO] You Can add up to 50 Student

[INFO] You Can add 45 more Student

First We Add the Students in the Text File into the Database to Can Use Them

## Find The Student Details By the First Name

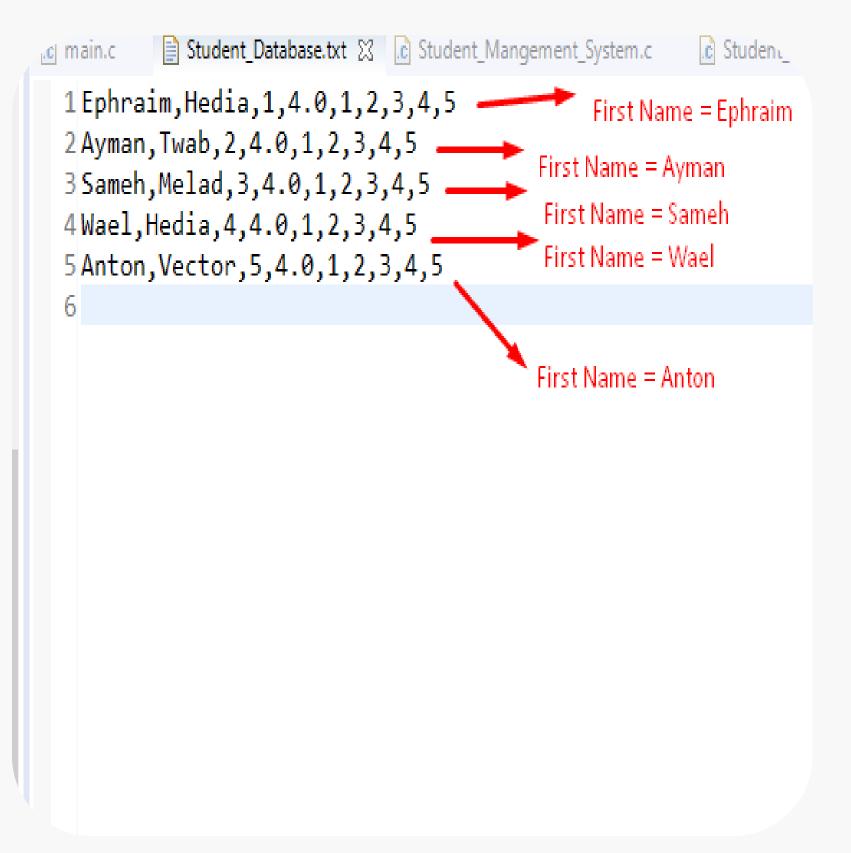
We add First the Students in the Text file into the Database to Use them in Our Check





#### **Learn-in-Depth**





## Find The Student Details By the First Name

[NOTE] Students Information in the Text File







\_noose The Task that you want to perform :

- Add Student Details Manually
- 2. Add Student Details From Text File
- Find The Student Details By the Roll Number
- 4. Find The Student Details By the First Name
- 5. Find The Student Details By the Course ID
- 6. Find The Total Number of Students
- 7. Delete the Student Details By Roll Number
- 8. Update the Student 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 :Ephraim

The Student Details are :

Student No. 1 :

Student First Name : Ephraim Student Last Name : Hedia

Student Roll Number : 1

Student GPA : 4.000000

The Course ID are 1

The Course ID are 2

The Course ID are 3

The Course ID are 4

The Course ID are 5

## Find The Student Details By the First Name

The Output of the Searching







-----

Choose The Task that you want to perform :

- Add Student Details Manually
- 2. Add Student Details From Text File
- Find The Student Details By the Roll Number
- 4. Find The Student Details By the First Name
- Find The Student Details By the Course ID
- 6. Find The Total Number of Students
- 7. Delete the Student Details By Roll Number
- 8. Update the Student Details By Roll Number
- Show all Information
- 10. To Exit

\_\_\_\_\_\_

Enter Your Choice to Perform the Task:4
Enter the First Name of the Student :Kero
[ERROR] First Name Kero Not Found

### Find The Student Details By the First Name

The Output of the Searching [If the Name Not Found in the Database]







## Find The Student Details By the Course ID

- OUTPUT if the Course ID is Exist in the Database
- OUTPUT if the Course ID not Exist in the Database





Choose The Task that you want to perform :

- Add Student Details Manually
- Add Student Details From Text File
- 3. Find The Student Details By the Roll Number
- 4. Find The Student Details By the First Name
- 5. Find The Student Details By the Course ID
- 6. Find The Total Number of Students
- 7. Delete the Student Details By Roll Number
- 8. Update the Student Details By Roll Number
- 9. Show all Information
- 10. To Exit

Enter Your Choice to Perform the Task:2

[INFO] File Reading Done

[INFO] Roll Number 1 is Added Successfully

[INFO] Roll Number 2 is Added Successfully

[INFO] Roll Number 3 is Added Successfully

[INFO] Roll Number 4 is Added Successfully

[INFO] Roll Number 5 is Added Successfully

[INFO] The Total Number of Student is 5

[INFO] You Can add up to 50 Student

[INFO] You Can add 45 more Student

First We Add the Students in the Text File into the Database to Can Use Them

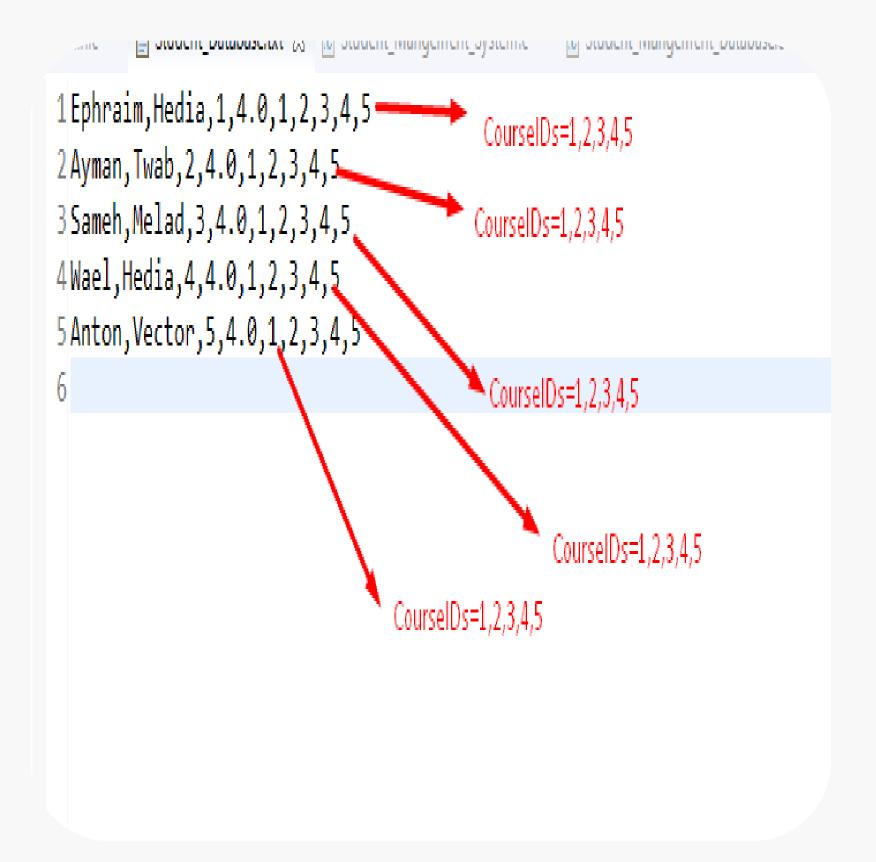
### Find The Student Details By the Course ID

We add First the Students in the Text file into the Database to Use them in Our Check









## Find The Student Details By the Course ID

[NOTE] Students Information in the Text File







```
iter Your Choice to Perform the Task:5
inter the Course ID :1
The Student Details are :
Student No. 1 :
Student First Name : Ephraim
Student Last Name : Hedia
Student Roll Number : 1
Student GPA: 4.000000
The Course ID are 1
The Course ID are 2
The Course ID are 3
The Course ID are 4
The Course ID are 5
Student No. 2 :
Student First Name : Ayman
Student Last Name : Twab
Student Roll Number: 2
Student GPA: 4.000000
The Course ID are 1
The Course ID are 2
The Course ID are 3
The Course ID are 4
The Course ID are 5
Student No. 3 :
Student First Name : Sameh
Student Last Name : Melad
Student Roll Number : 3
Student GPA: 4.000000
The Course ID are 1
The Course ID are 2
The Course ID are 3
The Course ID are 4
The Course ID are 5
Student No. 4:
Student First Name : Wael
Student Last Name : Hedia
Student Roll Number: 4
Student GPA: 4.000000
                                                          Activate
The Course ID are 1
                                                          Go to Set'
 e Course ID are 2
```

## Find The Student Details By the Course ID

The Output of the Searching if The Course ID Found







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Choose The Task that you want to perform :

- Add Student Details Manually
- 2. Add Student Details From Text File
- 3. Find The Student Details By the Roll Number
- 4. Find The Student Details By the First Name
- Find The Student Details By the Course ID
- Find The Total Number of Students
- 7. Delete the Student Details By Roll Number
- 8. Update the Student Details By Roll Number
- 9. Show all Information
- 10. To Exit

<u>Fnter Your Choice to Perf</u>orm the Task:5

Enter the Course ID :10

[ERROR] Course ID NOT FOUND

### Find The Student Details By the Course ID

The Output of the Searching if The Course ID Not Found







# Find The Total Number of Students

- OUTPUT At Beginning Before adding any Student
- OUTPUT After Adding The Students in the Text File into the Database





Project_2.exe [C/C++ Application] D:\Learn_in_Depth\C_Programming\Project_2\Debug\Project_2.  ✓	
Welcome to the Student Management System	
[INFO] The Database Initialize Successfully	
Choose The Task that you want to perform :	
1. Add Student Details Manually	
2. Add Student Details From Text File	
3. Find The Student Details By the Roll Number	
4. Find The Student Details By the First Name	
5. Find The Student Details By the Course ID	
6. Find The Total Number of Students	
7. Delete the Student Details By Roll Number	
8. Update the Student Details By Roll Number	
9. Show all Information	
10. To Exit	
Enter Your Choice to Perform the Task:6	
[ERROR] The Database is EMPTY , Try to Enter Data	

## Find The Total Number of Students

OUTPUT At Beginning Before adding any Student





Choose The Task that you want to perform :

- Add Student Details Manually
- 2. Add Student Details From Text File
- Find The Student Details By the Roll Number
- 4. Find The Student Details By the First Name
- 5. Find The Student Details By the Course ID
- 6. Find The Total Number of Students
- Delete the Student Details By Roll Number
- 8. Update the Student 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 5

[INFO] You Can add up to 50 Student

[INFO] You Can add 45 more Student

## Find The Total Number of Students

OUTPUT After Adding The Student in the Text File





# Delete the Student Details By Roll Number

- OUTPUT if The Student Roll
   Number Not Found
- OUTPUT if The Student is Exist





Choose The Task that you want to perform :

- Add Student Details Manually
- 2. Add Student Details From Text File
- 3. Find The Student Details By the Roll Number
- 4. Find The Student Details By the First Name
- 5. Find The Student Details By the Course ID
- Find The Total Number of Students
- Delete the Student Details By Roll Number
- 8. Update the Student Details By Roll Number
- 9. Show all Information
- 10. To Exit

Enter Your Choice to Perform the Task:7
Enter The Roll Number which you want to Delete :200
[ERROR] The ROll Number 200 NOT FOUND

# Delete the Student Details By Roll Number

OUTPUT if The Student Roll Number Not Found







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

1. Add Student Details Manually

2. Add Student Details From Text File

3. Find The Student Details By the Roll Number

4. Find The Student Details By the First Name

5. Find The Student Details By the Course ID

6. Find The Total Number of Students

7. Delete the Student Details By Roll Number

8. Update the Student Details By Roll Number

9. Show all Information

10. To Exit

Enter Your Choice to Perform the Task:9
```

```
Student First Name : Ephraim
Student Last Name : Hedia
Student Roll Number : 1
Student GPA : 3.500000
The Course ID are 1
The Course ID are 2
The Course ID are 3
The Course ID are 4
The Course ID are 5
Student First Name : Anton
Student Last Name : Vector
Student Roll Number : 2
Student GPA : 3.700000
The Course ID are 1
The Course ID are 2
The Course ID are 3
The Course ID are 4
The Course ID are 5
```

# Delete the Student Details By Roll Number

The Database Before Delete any Student







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Choose The Task that you want to perform :

- Add Student Details Manually
- 2. Add Student Details From Text File
- Find The Student Details By the Roll Number
- 4. Find The Student Details By the First Name
- 5. Find The Student Details By the Course ID
- 6. Find The Total Number of Students
- Delete the Student Details By Roll Number
- Update the Student Details By Roll Number
- 9. Show all Information
- 10. To Exit

\_\_\_\_\_\_

Enter Your Choice to Perform the Task:7
Enter The Roll Number which you want to Delete :1
[INFO] The ROll Number is removed Successfully

Delete the
Student Details
By Roll Number

Delete the Student of Roll Number =1







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

    Add Student Details Manually

2. Add Student Details From Text File
Find The Student Details By the Roll Number
4. Find The Student Details By the First Name
5. Find The Student Details By the Course ID
6. Find The Total Number of Students
7. Delete the Student Details By Roll Number
8. Update the Student Details By Roll Number
Show all Information
10. To Exit
Enter Your Choice to Perform the Task:9
Student First Name : Anton
Student Last Name : Vector
Student Roll Number : 2
Student GPA : 3.700000
The Course ID are 1
The Course ID are 2
The Course ID are 3
The Course ID are 4
The Course ID are 5
```

[INFO] Student Details is Printed Successfully

Delete the
Student Details
By Roll Number

Database After Deleting The Student





Update the Student Details By Roll Number



[INFO] Update Successfully



Choose The Task that you want to perform : 1. Add Student Details Manually 2. Add Student Details From Text File 3. Find The Student Details By the Roll Number 4. Find The Student Details By the First Name 5. Find The Student Details By the Course ID 6. Find The Total Number of Students 7. Delete the Student Details By Roll Number 8. Update the Student 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 :2 Which of the Following Data You Want to Change: 1. First Name 2. Last Name 3. Roll Number 4. GPA Courses Enter The New GPA :5

# Update the Student Details By Roll Number

Updating the GPA of Student with Roll Number =2
Just Prove of Concept







```
noose The Task that you want to perform :
1. Add Student Details Manually
2. Add Student Details From Text File
3. Find The Student Details By the Roll Number
4. Find The Student Details By the First Name
5. Find The Student Details By the Course ID
Find The Total Number of Students
7. Delete the Student Details By Roll Number
8. Update the Student Details By Roll Number
9. Show all Information
10. To Exit
Enter Your Choice to Perform the Task:9
Student First Name : Ephraim
Student Last Name : Hedia
Student Roll Number : 1
Student GPA : 3.500000
The Course ID are 1
The Course ID are 2
The Course ID are 3
The Course ID are 4
The Course ID are 5
Student First Name : Anton
Student Last Name : Vector
Student Roll Number : 2
Student GPA : 5.000000
                           GPA Updating Successfully
The Course ID are 1
The Course ID are 2
The Course ID are 3
The Course ID are 4
The Course ID are 5
_____
[INFO] Student Details is Printed Successfully
```

# Update the Student Details By Roll Number

**Database After Updating** 







#### Show all Information

- Show All information if Database
   Not Empty
- Show All information if IF Database Not Empty



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Choose The Task that you want to perform :

- Add Student Details Manually
- 2. Add Student Details From Text File
- 3. Find The Student Details By the Roll Number
- 4. Find The Student Details By the First Name
- 5. Find The Student Details By the Course ID
- 6. Find The Total Number of Students
- 7. Delete the Student Details By Roll Number
- 8. Update the Student Details By Roll Number
- 9. Show all Information

10. To Exit

-----

Enter Your Choice to Perform the Task:9

```
Student First Name : Ephraim
Student Last Name : Hedia
Student Roll Number : 1
Student GPA : 3.500000
The Course ID are 1
The Course ID are 2
The Course ID are 3
The Course ID are 4
The Course ID are 5
Student First Name : Anton
Student Last Name : Vector
Student Roll Number : 2
Student GPA : 5.000000
The Course ID are 1
The Course ID are 2
The Course ID are 3
The Course ID are 4
The Course ID are 5
[INFO] Student Details is Printed Successfully
```

#### Show all Information

IF Database Not Empty







Jject\_2.exe [C/C++ Application] D:\Learn\_in\_Depth\C\_Programming\Project\_2\Debug\Project\_2.exe (7/31/23, )\
Welcome to the Student Management System

[INFO] The Database Initialize Successfully

\_\_\_\_\_

Choose The Task that you want to perform :

- 1. Add Student Details Manually
- Add Student Details From Text File
- 3. Find The Student Details By the Roll Number
- 4. Find The Student Details By the First Name
- 5. Find The Student Details By the Course ID
- 6. Find The Total Number of Students
- 7. Delete the Student Details By Roll Number
- 8. Update the Student Details By Roll Number
- 9. Show all Intormation

10. To Exit

Enter Your Choice to Perform the Task:9 [ERROR] The Database is EMPTY , Try to Enter Data

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Choose The Task that you want to perform :

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- Show all Information
- To Exit

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Enter Your Choice to Perform the Task:

#### Show all Information

IF Database Empty

