**Ain Shams University**

**Faculty of Engineering**

**Mechatronics Engineering Department**

**Mastering Embedded System Online Diploma** [**www.learn-in-depth.com**](http://www.learn-in-depth.com)

**First Term (Final Project 2)**

**“Student Information Management System”**

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Contents

[**1** **Introduction** 3](#_Toc126677733)

[1.1 Features of each Student 3](#_Toc126677734)

[1.2 Features of All system 3](#_Toc126677735)

[**2** **Implementation** 4](#_Toc126677736)

[2.1 Add Student manually 4](#_Toc126677737)

[2.2 Add students from file 5](#_Toc126677738)

[2.3 Count of students 5](#_Toc126677739)

[2.4 Find the student by the given Roll Number 6](#_Toc126677740)

[2.5 Find the student by the given First Name 6](#_Toc126677741)

[2.6 Find Students registered in a course 7](#_Toc126677742)

[2.7 Show all Information of students 7](#_Toc126677743)

[2.8 Delete a student 8](#_Toc126677744)

[2.9 Update a student 9](#_Toc126677745)

[**3** **Test Cases** 10](#_Toc126677746)

[3.1 Add Students from File 10](#_Toc126677747)

[3.2 Add student Manually 11](#_Toc126677748)

[3.3 Find student by Roll Number 12](#_Toc126677749)

[3.4 Find student by First Name 12](#_Toc126677750)

[3.5 Find Students registered in a course 13](#_Toc126677751)

[3.6 Count of students 13](#_Toc126677752)

[3.7 Delete a student by Roll Number 14](#_Toc126677753)

[3.8 Update a student 15](#_Toc126677754)

# **Introduction**

* In this project we will Implement Student Information Management System that it has many features to become easy for users.

## Features of each Student

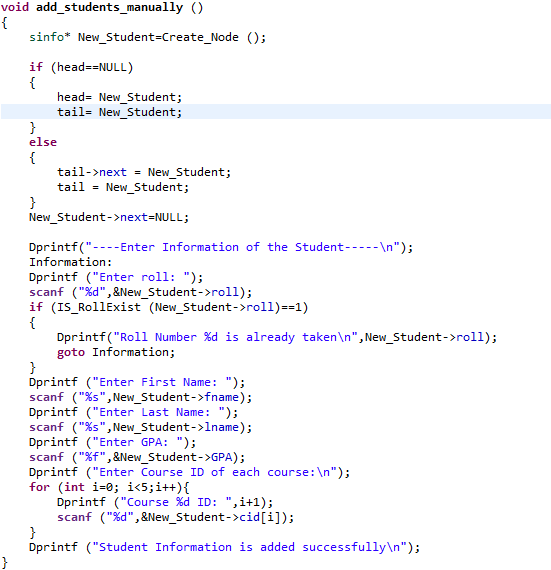
* Store First Name of the student.
* Store Last Name of the student.
* Store Unique Roll Number of the student.
* Store GPA of the student.
* Store Courses ID of the student.

## Features of All system

* Add Student Details from File.
* Add Student manually.
* Find the student by the given Roll Number.
* Find the student by the given First Name.
* Find Students registered in a course.
* Count of students.
* Delete a student.
* Update a student.
* Show all Information of students.
* Exit from the system.

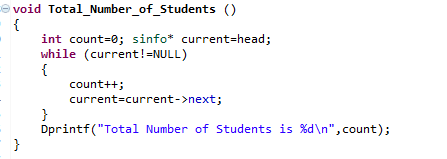
# **Implementation**

## Add Student manually

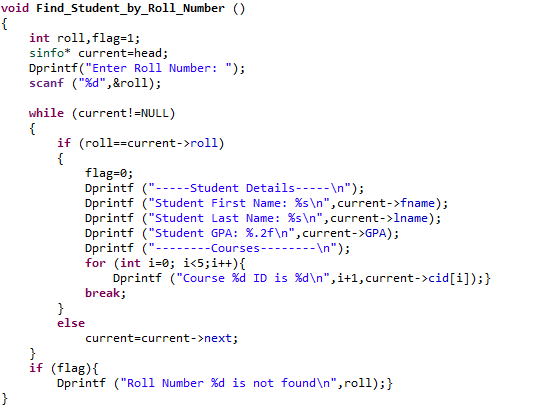


## Add students from file

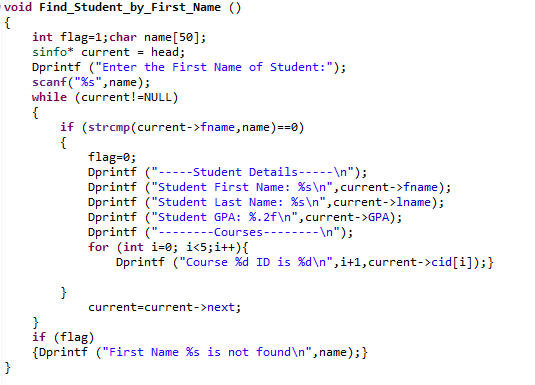
## Count of students



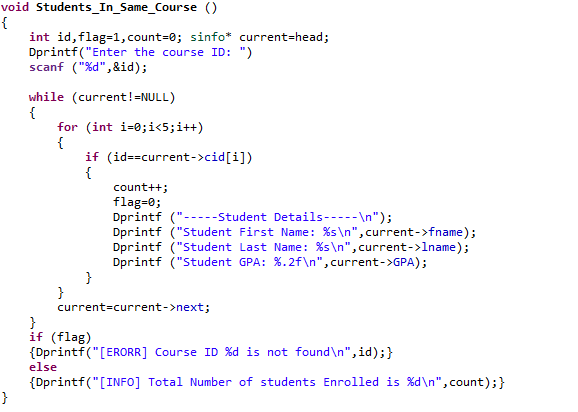
## Find the student by the given Roll Number



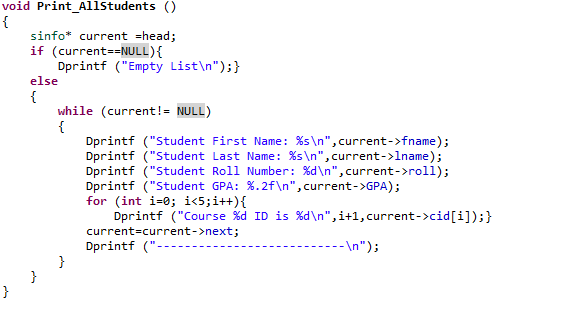
## Find the student by the given First Name



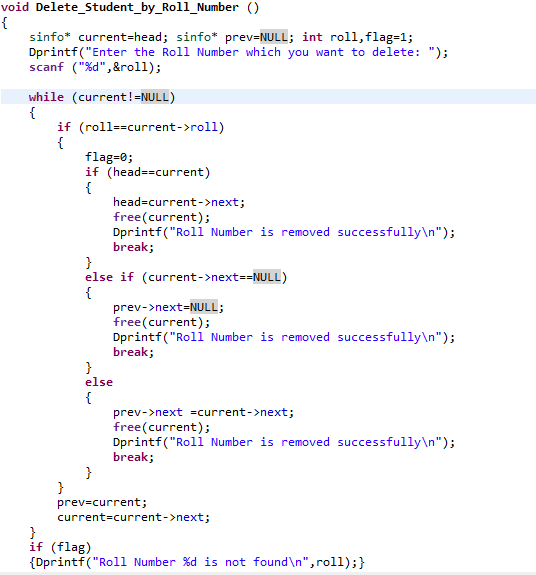
## Find Students registered in a course



## Show all Information of students



## Delete a student

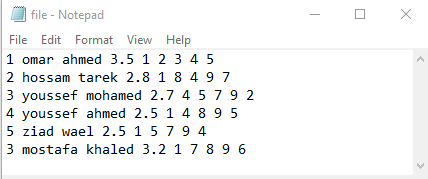
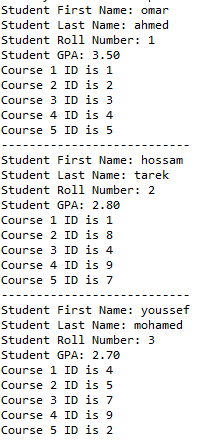


## Update a student

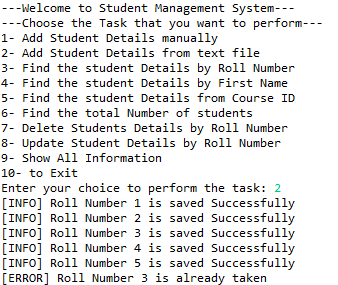


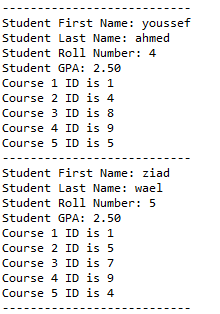
# **Test Cases**

## Add Students from File



**File.txt**

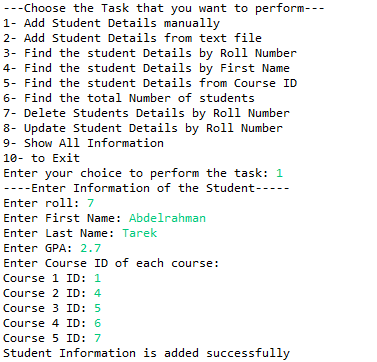


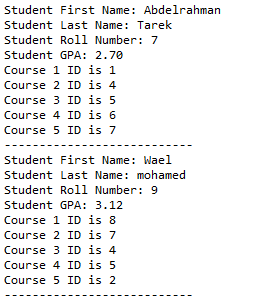
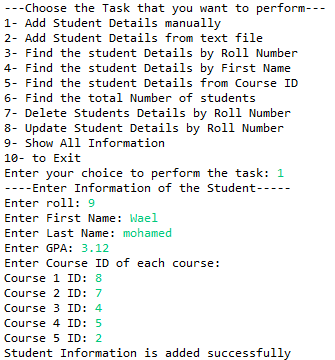


**Running**

**Students**

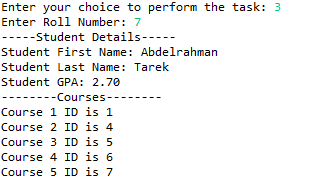
## Add student Manually





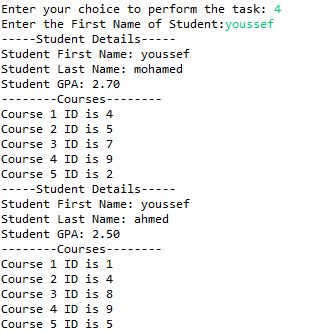
**Students**

## Find student by Roll Number



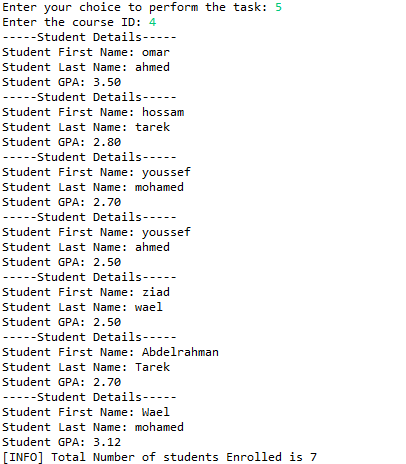


## Find student by First Name





## Find Students registered in a course

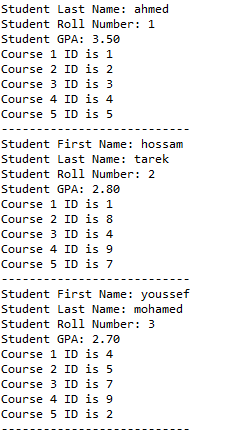




## Count of students

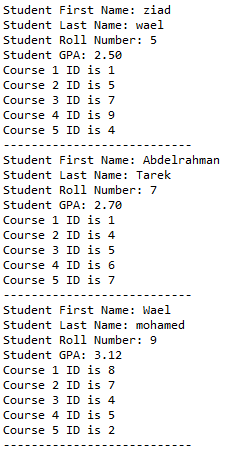


## Delete a student by Roll Number









## Update a student

