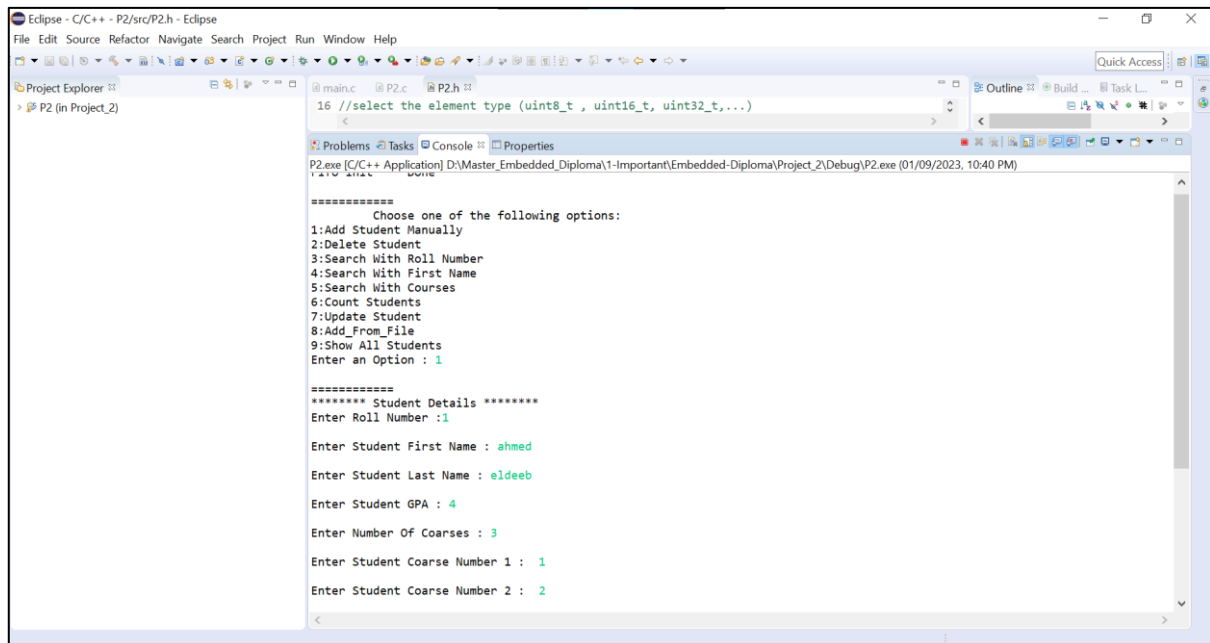


# FIRST TERM PROJECT 2

Students data base with queue

Made by Eng. Ahmed  
Eldeeb

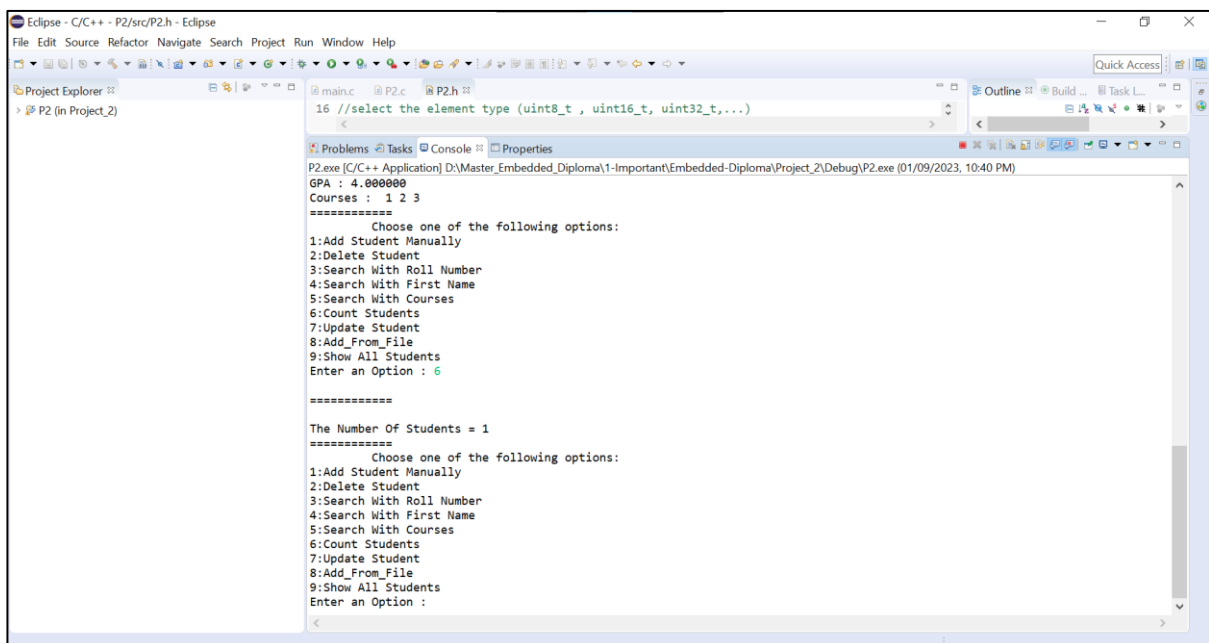
# Add Students Manually



The screenshot shows the Eclipse IDE with the following details:

- Project Explorer:** P2 (in Project\_2)
- Editor:** main.c, P2.c, P2.h. The code in P2.c shows a comment: `16 //select the element type (uint8_t , uint16_t, uint32_t,...)`
- Console:** Displays the program's output. It shows a menu with 9 options. Option 1, "Add Student Manually", has been selected. The program then prompts for student details: Roll Number (1), First Name (ahmed), Last Name (eldeeb), GPA (4), and Number of Courses (3). It then prompts for course numbers, with 1 and 2 entered.

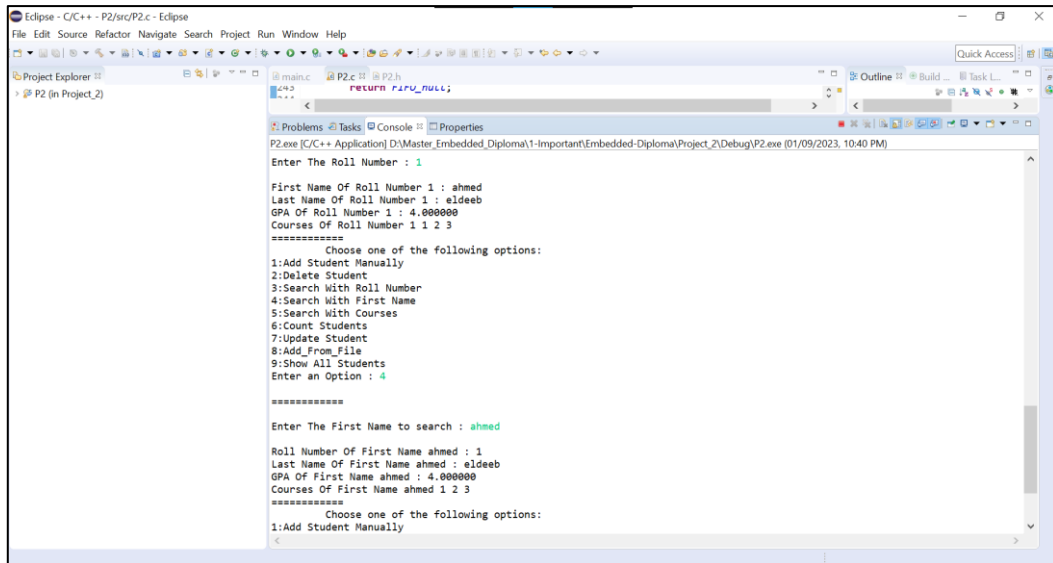
# Number Of Students



The screenshot shows the Eclipse IDE with the following details:

- Project Explorer:** P2 (in Project\_2)
- Editor:** main.c, P2.c, P2.h. The code in P2.c shows a comment: `16 //select the element type (uint8_t , uint16_t, uint32_t,...)`
- Console:** Displays the program's output. It shows the same menu as the previous screenshot. Option 6, "Count Students", has been selected. The program outputs the following information:  
GPA : 4.000000  
Courses : 1 2 3  
The Number Of Students = 1  
The console then shows the menu again, with Option 6 selected.

# Search with first name



```
return false;

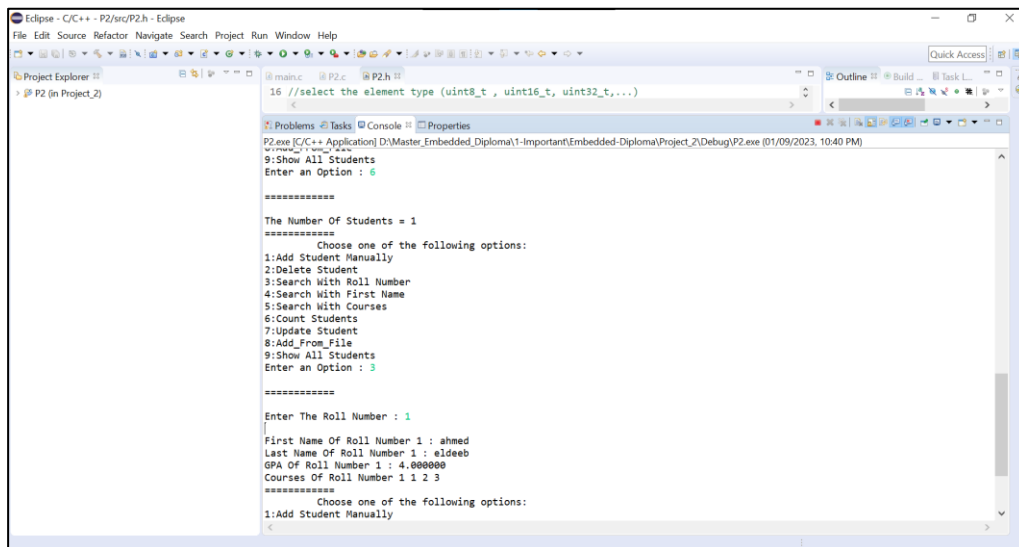
P2.exe [C/C++ Application] D:\Master_Embedded_Diploma\1-Important\Embedded-Diploma\Project_2\Debug\P2.exe (01/09/2023, 10:40 PM)

Enter The Roll Number : 1

First Name Of Roll Number 1 : ahmed
Last Name Of Roll Number 1 : eldeeab
GPA Of Roll Number 1 : 4.000000
Courses Of Roll Number 1 1 2 3
=====
Choose one of the following options:
1:Add Student Manually
2:Delete Student
3:Search With Roll Number
4:Search With First Name
5:Search With Courses
6:Count Students
7:Update Student
8:Add_From_File
9:Show All Students
Enter an Option : 4
=====
Enter The First Name to search : ahmed

Roll Number Of First Name ahmed : 1
Last Name Of First Name ahmed : eldeeab
GPA Of First Name ahmed : 4.000000
Courses Of First Name ahmed 1 2 3
=====
Choose one of the following options:
1:Add Student Manually
```

# Search With Roll Number



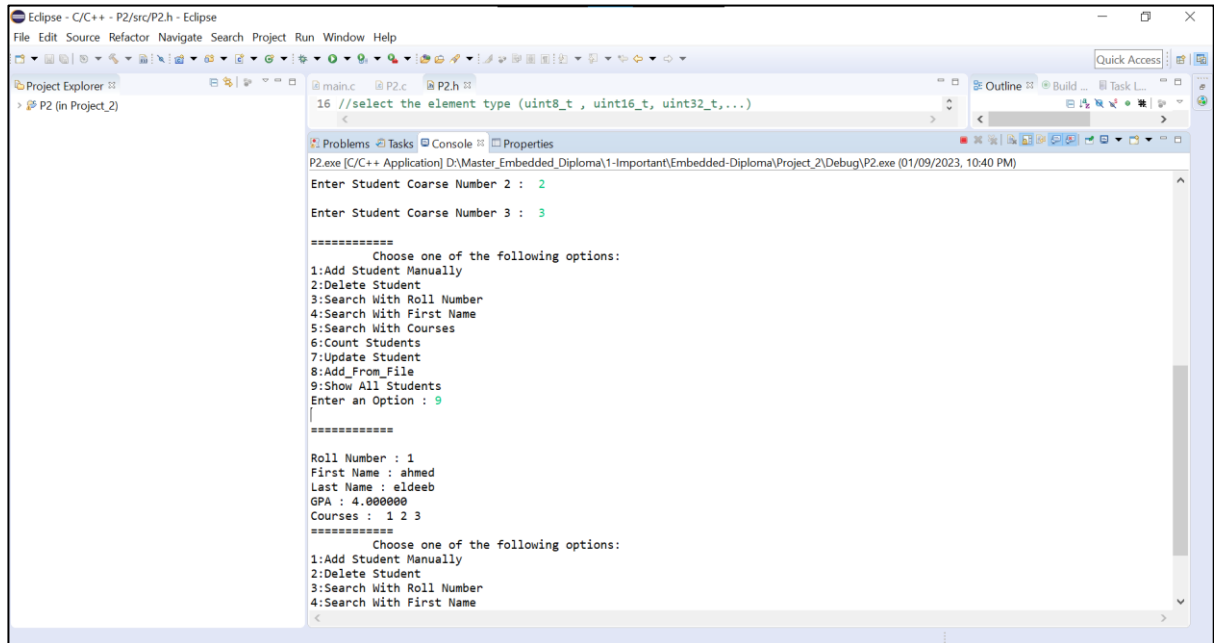
```
16 //select the element type (uint8_t, uint16_t, uint32_t,...)

P2.exe [C/C++ Application] D:\Master_Embedded_Diploma\1-Important\Embedded-Diploma\Project_2\Debug\P2.exe (01/09/2023, 10:40 PM)

9:Show All Students
Enter an Option : 3
=====
The Number Of Students = 1
=====
Choose one of the following options:
1:Add Student Manually
2:Delete Student
3:Search With Roll Number
4:Search With First Name
5:Search With Courses
6:Count Students
7:Update Student
8:Add_From_File
9:Show All Students
Enter an Option : 3
=====
Enter The Roll Number : 1

First Name Of Roll Number 1 : ahmed
Last Name Of Roll Number 1 : eldeeab
GPA Of Roll Number 1 : 4.000000
Courses Of Roll Number 1 1 2 3
=====
Choose one of the following options:
1:Add Student Manually
```

# Show All Students



```
Eclipse - C/C++ - P2/src/P2.h - Eclipse
File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer
P2 (in Project_2)
main.c P2.c P2.h
16 //select the element type (uint8_t, uint16_t, uint32_t,...)
P2.exe [C/C++ Application] D:\Master_Embedded_Diploma\1-Important\Embedded-Diploma\Project_2\Debug\P2.exe (01/09/2023, 10:40 PM)
Enter Student Coarse Number 2 : 2
Enter Student Coarse Number 3 : 3
=====
Choose one of the following options:
1:Add Student Manually
2:Delete Student
3:Search With Roll Number
4:Search With First Name
5:Search With Courses
6:Count Students
7:Update Student
8:Add_From_File
9:Show All Students
Enter an Option : 9
|
=====
Roll Number : 1
First Name : ahmed
Last Name : eldeeb
GPA : 4.000000
Courses : 1 2 3
=====
Choose one of the following options:
1:Add Student Manually
2:Delete Student
3:Search With Roll Number
4:Search With First Name
```