

Github - [github-link -Assignment1-Cs2910](#)

```
coolo@coolo asn1]$ python final.py
View : (S)Student info (C)Courses Info (G)Grades (A)Add (E)Exit : s
Student : (U)Update (L)List (S)Search (E)Exit to Main Menu : l
List : (U)Unordered (O)Ordered (R)Reversed (E)Exit to Main Menu : r
1,lamine, Jane, 4374567812,j_smith@gmail.com
2,fast, Anna, 4376902123,a_smith@gmail.com
View : (S)Student info (C)Courses Info (G)Grades (A)Add (E)Exit : s
Student : (U)Update (L)List (S)Search (E)Exit to Main Menu : s
Search : (L)Last Name (P)Phone number (E) Exit to Main Menu : l
Enter last name : fast
1,fast, Anna, 4376902123,a_smith@gmail.com
View : (S)Student info (C)Courses Info (G)Grades (A)Add (E)Exit : c
Course : (L)List (S)Search (E)Exit to Main Menu : l
List : (U)Unordered (O)Ordered (R)Reversed (E)Exit to Main Menu : o
1,CS2020, winter
2,CS2020, fall
3,CS2040, fall
4,CS2910, winter
View : (S)Student info (C)Courses Info (G)Grades (A)Add (E)Exit : c
Course : (L)List (S)Search (E)Exit to Main Menu : s
Search : (N)Name (C)Code (S)Semester (E) Exit to Main Menu : cs2040
View : (S)Student info (C)Courses Info (G)Grades (A)Add (E)Exit : e
coolo@coolo asn1]$
```

- List students, search last name, list courses

```
coolo@coolo asn1]$ python final.py
View : (S)Student info (C)Courses Info (G)Grades (A)Add (E)Exit : c
Course : (L)List (S)Search (E)Exit to Main Menu : s
Search : (N)Name (C)Code (S)Semester (E) Exit to Main Menu : s
Enter semester : fall
1,CS2020, fall
2,CS2040, fall
View : (S)Student info (C)Courses Info (G)Grades (A)Add (E)Exit : c
Course : (L)List (S)Search (E)Exit to Main Menu : s
Search : (N)Name (C)Code (S)Semester (E) Exit to Main Menu : n
Enter course name : cs2020
1,CS2020, winter
2,CS2020, fall
View : (S)Student info (C)Courses Info (G)Grades (A)Add (E)Exit : c
Course : (L)List (S)Search (E)Exit to Main Menu : s
Search : (N)Name (C)Code (S)Semester (E) Exit to Main Menu : c
Enter course code : 2
1,CS2020, fall
2,CS2020, fall
View : (S)Student info (C)Courses Info (G)Grades (A)Add (E)Exit : e
coolo@coolo asn1]$
```

- Search semester courses, search course name, search course code

```

[cooloo@cooloo: asn1]$ python final.py

View : (S)Student info (C)Courses Info (G)Grades (A)Add (E)Exit : g

Grades : (O)Stu Course & Grades (C)Stu Avg (CA)C+Term (AC)Avg Course Grades : o

Enter last name : fast
Anna,Smith, []
Jane,fast, [['CS2040', 90], ['CS2910', 85]]

View : (S)Student info (C)Courses Info (G)Grades (A)Add (E)Exit : g

Grades : (O)Stu Course & Grades (C)Stu Avg (CA)C+Term (AC)Avg Course Grades : c

Enter last name : fast
Jane,fast average = 87.5

View : (S)Student info (C)Courses Info (G)Grades (A)Add (E)Exit : g

Grades : (O)Stu Course & Grades (C)Stu Avg (CA)C+Term (AC)Avg Course Grades : ca

Enter student's last Name : fast
Enter course term : fall

Jane,fast fall average = 85.0

View : (S)Student info (C)Courses Info (G)Grades (A)Add (E)Exit : g

Grades : (O)Stu Course & Grades (C)Stu Avg (CA)C+Term (AC)Avg Course Grades : ac

Enter the course name : cs2020

the average grade for cs2020 is 75.0

View : (S)Student info (C)Courses Info (G)Grades (A)Add (E)Exit : 

```

- Student courses and grades, student total average, student term average, course average

The image displays two side-by-side screenshots of a terminal window running a Python program. The terminal prompt is 'coolo@coolo:~/cs2910/asn1'.

Left Screenshot: The program is in a menu-driven state. The user has selected 'View : (S)Student info (C)Courses Info (G)Grades (A)Add (E)Exit : s'. The program prompts for 'Student : (U)Update (L)List (S)Search (E)Exit to Main Menu : u' and 'Enter student id: 1'. The user enters '1,fast, Anna, 4376902123,a_smith@gmail.com'. The program prompts for 'Update: (L)Last Name (F)First Name (P)Phone Number (E)Email: l' and 'Enter new last name: anabell'. The user enters 'anabell'. The program prompts for 'View : (S)Student info (C)Courses Info (G)Grades (A)Add (E)Exit : s'. The user enters 's'. The program prompts for 'Student : (U)Update (L)List (S)Search (E)Exit to Main Menu : u' and 'Enter student id: 2'. The user enters '2,lamine, Jane, 4374567812,j_smith@gmail.com'. The program prompts for 'Update: (L)Last Name (F)First Name (P)Phone Number (E)Email: e' and 'Enter new email address: new_email@@@.me'. The user enters 'new_email@@@.me'. The program prompts for 'View : (S)Student info (C)Courses Info (G)Grades (A)Add (E)Exit : a'. The user enters 'a'. The program prompts for 'Enter last name and course code : addy CS9090'. The user enters 'addy CS9090'. The program prompts for 'Enter grades for CS2020 :'. The user enters '2'. The program prompts for 'Enter grades for CS2020 :'. The user enters '2'. The program prompts for 'Enter grades for CS2040 :'. The user enters '30'. The program prompts for 'Enter grades for CS2910 :'. The user enters '30'. The program prompts for 'View : (S)Student info (C)Courses Info (G)Grades (A)Add (E)Exit :'. The user enters '1'.

Right Screenshot: The program is in the same state as the left screenshot, but the file explorer window is open, showing the contents of the 'grades.csv' file. The file contains the following data:

```
1,Smith;Anna;na;75;na;na
2;anabell;Jane;na;na;90;85
99;addy;xyz;na;2;30;na
```

The file explorer window also shows the contents of the 'students.csv' file, which contains the following data:

```
1,anabell;Anna;4376902123;a_smith@gmail.com
2;lamine;Jane;4374567812;new_email@@@.me
99;addy;xyz;1234;@@@
```

- Student info updated (name and email) shows changes in grades too, add new student , course and grades,, grades can be empty auto filled other parameters