

Department of Electrical & Computer Engineering
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Linux Laboratory

Python Project - Students Records Management System

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The menu screen shot for options :

```
welcome to our student recording system

please chose Admin or user

1-Admin

2-User

3-End the program

welcome to Admin page

please chose frome the menu

1-Add new record to the system

2-Add new semester to the student record

3-update student record

4-Student statistics

5-Global statistics

6-Searching

7-return to login
```

```
welcome to our student recording system

please chose Admin or user

1-Admin

2-User

3-End the program

welcome to user page

please enter your number

1191636

please chosse from the menu

1-my statistics

2-global statistics

3-back to menu
```

Admin options:

- Add new record to the system :

Here, I entered a student id that exist in record system already.

```
please chose frome the menu

1-Add new record to the system

2-Add new semester to the student record

4-Student statistics

5-Global statistics

6-Searching

7-return to login

1

please enter the student id

1191636

error...the student already in the system

Below, I entered a student id that not exist
```

```
welcome to Admin page

please chose frome the menu

1-Add new record to the system

2-Add new semester to the student record

3-update student record

4-Student statistics

5-Global statistics

6-Searching

7-return to login

1

please enter the student id

1200120
```

- add new semester to the student record :

```
welcome to Admin page
    please chose frome the menu
        1-Add new record to the system
        2\text{-}Add new semester to the student record
        3-update student record
        4-Student statistics
        5-Global statistics
       6-Searching
        7-return to login
please enter the student id :
Please enter the year (it should in form x-x).
2020-2021
Please enter the semester number ('1' means the first semester , '2' means the second semseter , '3' means the Summer semester ):
['ENCS3340', 'ENEE3307', 'ENCS2110', 'ENCS2380', 'ENEE2304', 'ENEE2312', 'ENCS3330', 'ENCS3310', 'ENCS3390', 'ENCS4110', 'ENEE3300', 'ENCS3320', 'ENCS3330', 'ENCS3340'
Please enter the course or -1 to exit
encs2340
please enter the grade
Please enter the course or -1 to exit
```

The result shown in file:

```
main.py × 1197867.txt ×

1 2020-2021/1 ; ENCS2340 94
2
```

- Another add record semester and shown the result in Id student file:

```
please enter the student id:

1197867

Please enter the year (it should in form x-x).

2021-2022

Please enter the semester number ('1' means the first semester, '2' means the second semseter, '3' means the Summer semester):

2

['ENCS2340', 'ENEE2307', 'ENCS2110', 'ENCS2380', 'ENEE2304', 'ENEE2312', 'ENCS3130', 'ENCS3310', 'ENCS3390', 'ENCS4110', 'ENEE2360', 'ENEE3309', 'ENCS3320', 'ENCS3330', 'ENCS3330', 'ENCS3340', Please enter the course or -1 to exit

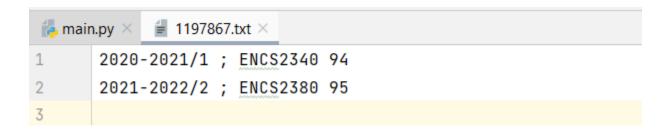
encs2380

please enter the grade

95

Please enter the course or -1 to exit

-1
```



- update student record :

```
3
please enter the student id :
1197867
1197867.txt
please enter the course you want to update
encs2340
please enter the new grade
98
2020-2021/1 {'ENCS2340': '98'}
2021-2022/2 {'ENCS2380': '95'}
1
      2020-2021/1 ; ENCS2340 98
      2021-2022/2 ; ENCS2380 95
2
3
```

If the course is not in record, the program will print an error message.

```
please enter the student id :

1197867

1197867.txt

please enter the course you want to update

encs2220

please enter the new grade

80

the course not found please add a valid one
```

- Student statistics

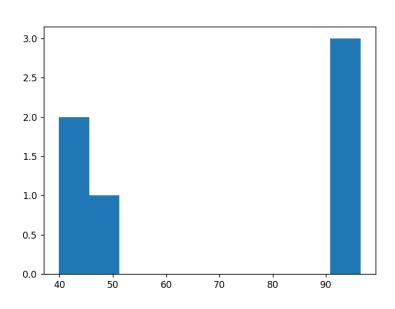
```
4
 please enter the student id :
 1197867
 1197867.txt
 semester: 2020-2021/1 ----> average: 98.00, taken hour: 3
 semester: 2021-2022/2 ----> average: 95.00,taken hour: 3
remaining courses ---> ['ENEE2307', 'ENCS2110', 'ENEE2304', 'ENEE2312', 'ENCS3130', 'ENCS3310', 'ENCS3390', 'ENCS4110', 'ENEE2360', 'ENEE2360', 'ENEE3309', 'ENCS3320', 'ENCS3330', 'ENCS3340',
over all avg ---> 96.50
taken hours --->6
             remaining courses --->['ENEE2307', 'ENCS2110', 'ENEE2304', 'ENEE2312', 'ENCS3130',
             'ENCS3310', 'ENCS3390', 'ENCS4110', 'ENEE2360', 'ENEE3309', 'ENCS3320', 'ENCS3330',
             'ENCS3340', 'ENCS4370', 'ENEE2103', 'ENEE4113', 'ENCS4130', 'ENCS4210', 'ENCS4310',
```

'ENCS4320', 'ENCS4380', 'ENCS4330', 'ENCS4300', 'ENCS5140', 'ENCS5200', 'ENCS5150', 'ENCS5300']

4 please enter the 112020 The student does	student id : not have any courses . Please add courses to this student and try again ! .
main.py ×	

- Global statistics

+ distribution of grades



_

```
1173239.txt
1173966.txt
1175914.txt
1190119.txt
1191636.txt
1197867.txt
avg for all students ---> {'1173239.txt': 39.875, '1173966.txt': 49.61538461538461, '1175914.txt': 43.7083333333333, '1190119.txt': 95.0, '11
taken courses for all student :
student-----taken courses
1173239.txt
               ['ENCS4310', 'ENCS5150', 'ENCS3130', 'ENCS5200', 'ENEE2103']
student-----taken courses
1173966.txt
              ['ENCS4380', 'ENEE2307', 'ENCS5150', 'ENCS3390', 'ENCS5300']
student-----taken courses
1175914.txt
              ['ENCS3330', 'ENCS4210', 'ENCS5140', 'ENEE2304', 'ENCS4310', 'ENCS3130', 'ENCS5200', 'ENCS4300', 'ENCS2380', 'ENCS4370']
student-----taken courses
1190119.txt ['ENCS2340']
student-----taken courses
1191636.txt ['ENEE2307', 'ENCS3130']
student-----taken courses
1197867.txt ['ENCS2340', 'ENCS2380']
average for all students ---> 69.283
average for taken hours ---> 9.667
```

The avg for all students below because the screen shot does not show all the results (the area is small).

avg for all students ---> {'1173239.txt': 39.875, '1173966.txt': 49.61538461538461, '1175914.txt': 43.708333333333333336, '1190119.txt': 95.0, '1191636.txt': 91.0, '1197867.txt': 96.5}taken hour for all students ---> {'1173239.txt': 8, '1173966.txt': 13, '1175914.txt': 24, '1190119.txt': 3, '1191636.txt': 4, '1197867.txt': 6}

- Searching

```
please chose the criteria you want to search
1-average
2-taken hour
3-courses
4-back to menu
1
please enter the average you search for
98
chose what you want to search :
1-less
2-grater
3-equal
the students is : {'1173966.txt', '1191636.txt', '1173239.txt', '1175914.txt', '1190119.txt', '1197867.txt'}
       please chose the criteria you want to search
       1-average
       2-taken hour
        3-courses
        4-back to menu
       1
       please enter the average you search for
        90
       chose what you want to search :
       1-less
       2-grater
       3-equal
        2
       the students is : {'1197867.txt', '1190119.txt', '1191636.txt'}
```

```
please enter the average you search for 91
chose what you want to search:
1-less
2-grater
3-equal
3
the students is: {'1191636.txt'}

please chose the criteria you want to search
1-average
2-taken hour
3-courses
4-back to menu
3
please enter the course you search for:
encs2340
the students is: {'1197867.txt', '1190119.txt'}
```

Students' options:

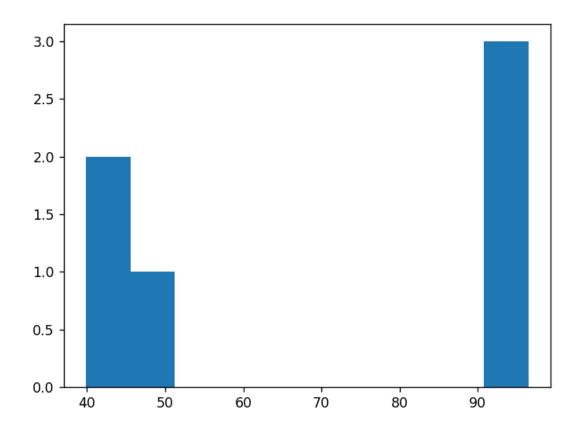
Student statistics:

Remaning courses:

['ENCS2340', 'ENCS2110', 'ENCS2380', 'ENEE2304', 'ENEE2312', 'ENCS3310', 'ENCS3390', 'ENCS4110', 'ENEE2360', 'ENEE3309', 'ENCS3320', 'ENCS3330', 'ENCS3340', 'ENCS4370', 'ENEE2103', 'ENEE4113', 'ENCS4130', 'ENCS4210', 'ENCS4310', 'ENCS4320', 'ENCS4380', 'ENCS4330', 'ENCS4300', 'ENCS5140', 'ENCS5200', 'ENCS5150', 'ENCS5300']

Global statistics:





```
2
1173239.txt
1173966.txt
1173966.txt
1179919.txt
119619.txt
119136.txt
11913
```

14