



# LINUX LABORATORY-LECTURE-1211-ENCS3130



Name: Amany Khdair partner: Hadeel Abdellatif

Id: 1190728 Id: 1190451

Instructor: Dr. Hanna Bullata

Assistant: Ms. Kati Sadi

Section: 3

#### User interface:

## o Admin options:

```
Welcome to the admin page

Menu

1-Add a new record file to the system

2-Add a new semester to the student record

3-update the student record

4-Student statistics

5-Global statistics

6-Searching

7-return to login
```

## • Student options:

```
Welcome to the student page

Menu

1-Student statistics

2-Global statistics

3-return to login
```

# o Admin options starting with the first option:

When enter a student id exist in the system, massage error will show as below 1

```
Could you please enter the student id: 1190728

Try entering another number

Welcome to the admin page

Menu

1-Add a new record file to the system

2-Add a new semester to the student record

3-update the student record

4-Student statistics

5-Global statistics

6-Searching

7-return to login
```

While when entering a non-exist id then

```
Could you please enter the student id: 1190991

The file has been added successfully

Welcome to the admin page

Menu

1-Add a new record file to the system

2-Add a new semester to the student record

3-update the student record

4-Student statistics

5-Global statistics

6-Searching

7-return to login
```

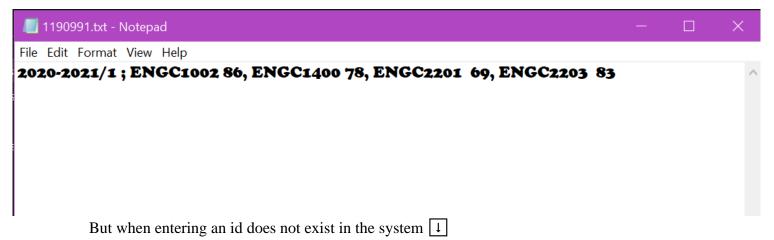
#### Result:



## ○ Admin options → second option:

```
Could you please enter the student id: 199991
Could you please enter the year you want?:
note you should know: please enter the year followed by '-' like:(2020-2021) :) 300-2021
year is valid ..
Could you please enter the number of the semester: 1
the courses file consist the following:
['ENGC1000', 'ENGC1001', 'ENGC1002', 'ENGC1201', 'ENGC1202', 'ENGC1400', 'ENGC2201', 'ENGC2202', 'ENGC2201', 'ENGC2201', 'ENGC2201', 'ENGC2202', 'ENGC2203'
Could you please enter the course name or if you want to exit enter '0': 2000-2002
Could you please enter the grade: 20
Could you please enter the course name or if you want to exit enter '0': 2000-2002
the course you entered does not exist! try enter from above.
Could you please enter the course name or if you want to exit enter '0': 2000-2002
Could you please enter the grade: 20
Could you please enter the grade: 20
Could you please enter the grade: 20
Could you please enter the course name or if you want to exit enter '0': 2000-2003
Could you please enter the course name or if you want to exit enter '0': 2000-2003
Could you please enter the course name or if you want to exit enter '0': 2000-2003
Could you please enter the course name or if you want to exit enter '0': 2000-2003
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Could you please enter the course name or if you want to exit enter '0': 2000-2003
Could you please enter the course name or if you want to exit ent
```

#### **Result:**



Could you please enter the student id: 1190888

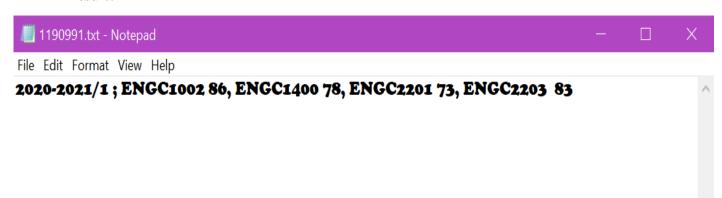
ERROR!, the id is not in the system, try entering another number

Welcome to the admin page

# ○ Admin options → third option:

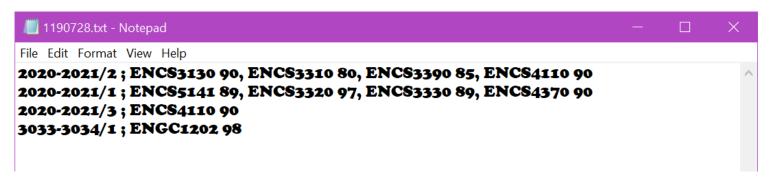
```
Could you please enter the student id: 1170991
The student id is already in the system!
The file is exist ...
Please inter the course you want to change its mark: ENGC2201
please enter the new mark: 73
update successfully
Welcome to the admin page
-------
Menu
1-Add a new record file to the system
2-Add a new semester to the student record
3-update the student record
4-Student statistics
5-Global statistics
6-Searching
7-return to login
```

#### **Result:**



# ○ Admin options → fourth option:

Let us try another student who have the following data 1:



```
Could you please enter the student id: 1178728

The student id is already in the system!

Student statistics:

* The number of taken hours: 30

* The remaining courses: ['ENGC1000', 'ENGC1001', 'ENGC1002', 'ENGC1201', 'ENGC1400', 'ENGC2201', 'ENGC2202', 'ENGC2400', 'ENGC2201', 'ENGC2

* Average per semester:

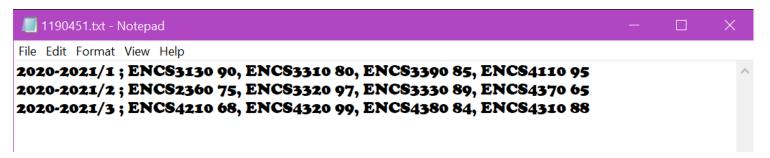
-The average of the first semester: 92.6

-The average of the second semester: 86.25

-The average of the summer semester: 90.0

* Overall average: 89.8
```

#### **Another student:**



```
Could you please enter the student id: 1190451

The student id is already in the system!

Student statistics:

* The number of taken hours: 33

* The remaining courses: ['ENGC1000', 'ENGC1001', 'ENGC1002', 'ENGC1201', 'ENGC1202', 'ENGC1400', 'ENGC2201', 'ENGC2202', 'ENGC2400', 'ENGC22 * Average per semester:

-The average of the first semester: 87.5

-The average of the second semester: 81.5

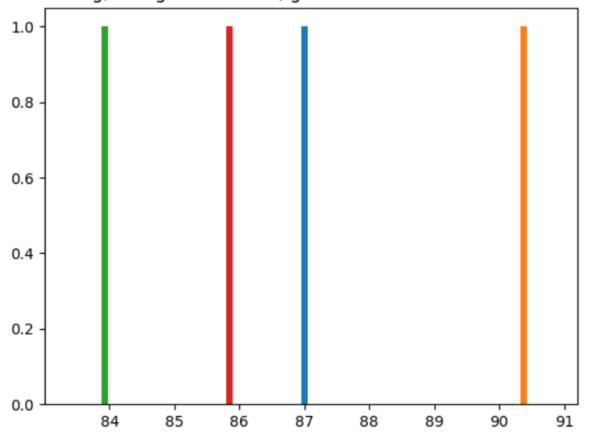
-The average of the summer semester: 84.75

* Overall average: 84.5833333333333333
```

## $\circ$ Admin options $\rightarrow$ fifth option:

## For the graph:

plot for the distribution of student grades blue:allavg, orange:semester1, green:semester2 and red:semester3



## ○ Admin options $\rightarrow$ sixth option:

```
Could you please enter what you want to search?
1) Average
2) Taken hours
3) Return to menu
Could you please enter the average you want me to search? :) 40
Hello again!,chose from below what to compare :
1) grater than
3) equal
This student with this number 1190451 got an average higher than the required average in the first semester
This student with this number 1190451 got an average higher than the required average in the second semester
This student with this number 1190451 got an average higher than the required average in the summer semester
This student with this number 1190728 got an average higher than the required average in the first semester
This student with this number 1190728 got an average higher than the required average in the second semester
This student with this number  1190728  got an average higher than the required average in the summer semester
Could you please enter what you want to search?
1) Average
2) Taken hours
3) Return to menu
```

Here I chose to search about the average and grater than 40. Same for other options.

Let's see the taken hours:

```
Could you please enter what you want to search?

1) Average

2) Taken hours

3) Return to menu

Could you please enter the hours you want me to search? :) 70

Hello again!, chose from below what to compare :

1) grater than

2) less than

3) equal

This student with this number 1190451 got an houres less than the required hour average
This student with this number 1190728 got an houres less than the required hour average
Could you please enter what you want to search?

1) Average

2) Taken hours

3) Return to menu
```

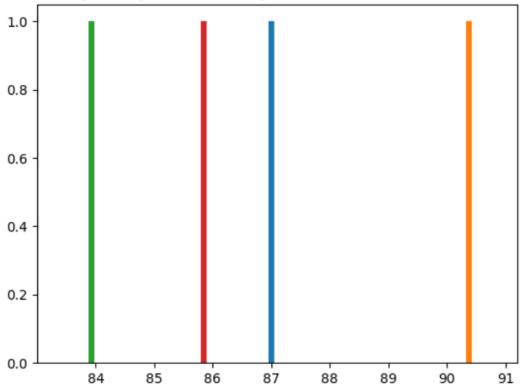
## ○ Student options → first option:

```
| 1-1"m an admin | 2-1"m a user | 3-End the program | 3-End the program | 3-End the program | 3-End the program | 4-1"m an admin | 4-1"m an ad
```

## $\circ$ Student options → second option:

And the graph printed before will be printed here too:

plot for the distribution of student grades blue:allavg, orange:semester1, green:semester2 and red:semester3



return to login page and end the program 1

```
Welcome to the student page

Menu

1-Student statistics
2-Global statistics
3-return to login

Hello, welcome to Amany & Hadeel student recording system

please chose one from below:

1-I'm an admin
2-I'm a user
3-End the program

Process finished with exit code 0
```