

lap3

بسم الله الرحمن الرحيم

اولا المعززة على اى اسم او كلمة مكتوبة بطريقة خطأ فى الكود او فى التلخيص

ثانيا الكود مش احسن حاجة بس عشان الوقت اكتفيت بده

الملفات كلها هتترفع مع الملف ده

اولا عملت 3 ملفات csv واحد لل students وواحد لل courses وواحد ل student_course

وعملت 3 modules كل module خاص بملف csv وفيه functions بتاعته

اولا student_module and course_module

اللاتنين دول فيهم 3 functions

واحدة لطباعة كله والثانية لطباعة كورس او طالب محدد والاخير عشان احط طالب او كورس

student_course module

ده بقى فيها فانكشن واحدة عشان احط كورس لطالب معين

functions

الطباعة بتطبع كله او طالب او كورس محدد

ال بتحط بترجع ال id

الى بتحط كورس لطالب معين بترجع dectionery فيه ال student_id and course_id and grade

ميكاريزم ال id هو اخر 1 + id

student.csv

```
id,name,age,email
0,test0,10,test_email1
1,test1,15,test_email2
2,test2,20,test_email3
3,test3,25,test_email4
4,test4,30,test_email5
5,ziad,20,shalabyziad94@gmail.com
6,AHMED,50,uuui
```

student_module.py

```
# This file will contain 3 main functions,  
# one for displaying students,  
# one for adding a student.  
# and one for show specefic student.  
  
import os  
# هستخدمها عشان اجيب مسار الملف بس عشان يقدر يشتغل على اى جهاز  
file_path = os.path.join(os.path.dirname(__file__), "Students.csv")  
  
# displaying students from students.csv  
def showStudents() :  
    file = open(file_path, "r")  
    for item in file.readlines() :  
        item = item.replace("\n", "").replace(", ", " ")  
        print(item)  
  
# adding new student with unique ID  
def addStudent(name, age, email) :  
    file = open(file_path, "r")  
    file = file.readlines()  
    newId = int(file[len(file)-1].split(",")[0]) + 1 # ال اى دى الجديد هو اخر اى دى زائد واحد  
  
    file = open(file_path, "a")  
    file.write(f"{newId},{name},{age},{email}\n")  
    return newId  
  
# show specefic student  
def showSpeceficStudent(id) :  
    file = open(file_path, "r")  
    file = file.readlines()  
    for item in file :  
        if not item[0].isdigit() : continue  
        if(int(item[0]) == id) :  
            print(item)  
            break  
  
# this file is finished  
# programed by ziad ahmed shalaby
```

course.csv

```
id,name,max_grade  
0,test1,10  
1,test2,20  
2,test3,30  
3,test4,40  
4,test5,50  
5,test6,60  
6,cs,150  
7,it,70
```

course_module.py

```
# الموديل يشبه جدا الموديل الخاص الطلاب

# This module will contain 3 main functions,
# one for displaying courses,
# one for adding a course.
# and one for show specefic course.

import os
# مستخدمها عشان اجيب مسار الملف بس عشان يقدر يشتغل على اى جهاز
file_path = os.path.join(os.path.dirname(__file__), "Courses.csv")

# displaying Courses from Courses.csv
def showCourses() :
    file = open(file_path, "r")
    for item in file.readlines() :
        item = item.replace("\n","").replace(","," ")
        print(item)

# adding new Courses with unique ID
def addCourses(name, max_grade) :
    file = open(file_path, "r")
    file = file.readlines()
    newId = int(file[len(file)-1].split(",")[0]) + 1 # ال اى دى الجديد هو اخر اى دى زائد واحد

    file = open(file_path, "a")
    file.write(f"{newId},{name},{max_grade}\n")
    return newId

# show specefic course
def showSpeceficCourse(id) :
    file = open(file_path, "r")
    file = file.readlines()
    for item in file :
        if not item[0].isdigit() : continue
        if(int(item[0]) == id) :
            print(item)
            break

# this module is finished
# programed by ziad ahmed shalaby
```

student_course.csv

```
course_id,student_id,
grade
2,0,90
0,1,80
3,2,60
7,6,100
7,6,100
7,6,100
7,6,60
7,6,70
7,2,70
7,5,90
```

student_course_module.py

```
# This module will contain one main function,
# for adding course to specefic student,

import os
# استخدمها عشان اجيب مسار الملف بس عشان يقدر يشتغل على اى جهاز
file_path = os.path.join(os.path.dirname(__file__), "Student_Course.csv")

# adding new course to specefic student
def addNewCourse(course_id, student_id, grade) :
    file = open(file_path, "a")
    file.write(f"{course_id},{student_id},{grade}\n")
    return {
        "course_id": course_id,
        "student_id": student_id,
        "grade": grade
    }

# this module is finished
# prograded by ziad ahmed shalaby
```

```

from students_module import *
from courses_module import *
from students_courses_module import *

print("Welcome, please choose from the list what you want")

while True :

    print("""
[1] adding new student
[2] show all students
[3] adding new course
[4] show all courses
[5] adding course to student
""")

    choise = input(": ")
    while True :
        if choise.isdigit() and int(choise) > 0 and int(choise) < 6 :
            break
        else :
            choise = input("pls enter number from 1 , 2 , 3 , 4 or 5 : ")

    choise = int(choise)

    if choise == 1 :
        name = input("pls enter your name : ")
        age = input("pls enter your age : ")
        email = input("pls enter your email : ")
        returendID = addStudent(name, age, email)
        print("=====")
        print(f"id is {returendID}")
        print("=====")

    elif choise == 2 :
        print("=====")
        showStudents()
        print("=====")

    elif choise == 3 :
        name = input("pls enter name course : ")
        max_grade = input("pls enter max_grade : ")
        returendID = addCourses(name, max_grade)
        print("=====")
        print(f"id is {returendID}")
        print("=====")

    elif choise == 4 :
        print("=====")
        showCourses()
        print("=====")

    elif choise == 5 :
        course_id = input("pls enter course_id : ")
        student_id = input("pls enter student_id : ")
        grade = input("pls enter grade : ")
        returendDec = addNewCourse(course_id, student_id, grade)
        print("=====")
        showSpeceficCourse(int(returendDec["course_id"]))
        showSpeceficStudent(int(returendDec["student_id"]))
        print(returendDec["grade"])
        print("=====")

```