#Project 2

#CMPT 258

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#Print to provide user with the menu

print("""

1.Enter the instructor ID and I will provide you with the name of the instructor, affiliated department and the location of that department.

2.Enter the department name and I will provide you with the location, budget and names of all instructors that work for the department.

3.Insert a record about a new instructor.

4.Delete a record about an instructor.

5.Exit

""")

#Opens instructor.txt

**fileInstructor = open("C:\\Users\\Zarav\\Documents\\Python\\instructor.txt", "r")**

#Dictionary named instructor

**instructor = {}**

**for line in fileInstructor:**

**id, name, dept = line.split(",")**

**instructor[id] = name**

**instructor[name] = dept.rstrip()**

#Opens department.txt

**fileDepartment = open("C:\\Users\\Zarav\\Documents\\Python\\department.txt", "r")**

#Dictionary named department

department = {}

for line in fileDepartment:

dept, location, budget = line.split(",")

department[dept] = location

department[location] = budget

#While loop that continues to display the menu until user selects option 5

**while True:**

**ans=input("What would you like to do?")**

#Displays the following information when user selects option 1

if ans=="1":

id=input("\n Enter the instructor ID:")

if id in instructor:

print("\nInstructor Name: "+ instructor[id])

name = instructor[id]

print("Affiliated department: "+ instructor[name])

print("Location: "+ department[instructor[name]])

else:

print("\nThe ID does not appear in the file")

#Displays the following information if user selects option 2

elif ans=="2":

dept=input("\n Enter the department name:")

if dept in department:

if dept=="CMPT":

print("Department Budget: $75000")

elif dept == "MATH":

print("Department Budget: $55000")

elif dept == "BIOL":

print("Department Budget: $60000")

print("Department Location: "+ department[dept])

print("Instructors that work for the department: ")

print (instructor)

else:

print("\nThe department name does not appear in the file")

#Displays the following information if user selects option 3

**elif ans=="3":**

**id=input("\n Enter the instructor id:")**

**name=input("\n Enter the instructor name:")**

**dept=input("\n Enter the affiliated department name:")**

**if(dept not in department):**

**print("\nThe department does not exist and hence the instructor record cannot be added to the database\n")**

**if(id in instructor):**

**print("\nInstructor id already exists\n")**

**if(dept in department and id not in instructor ):**

**fileInstructor = open("C:\\Users\\Zarav\\Documents\\Python\\instructor.txt", "a+")**

**fileInstructor.write("\r\n" + id + "," + name + "," + dept + "\r\n")**

**fileInstructor.close()**

**print ("\n Instructor id: " + id)**

**print ("\n Instructor name: " + name)**

**print ("\n Affiliated department name: " + dept)**

#Displays the following information if user selects option 4

elif ans=="4":

id=input("\n Enter the instructor id:")

if id in instructor:

del instructor[id]

else: print("The ID does not appear in the file.")

**#Stops while loop and finishes the program**

**elif ans=="5":**

**print("\n Goodbye")**

**break**