*# Project 1*

*# CMPT 258*

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**# List of instructors ID**

**instructorID=["1001", "1002", "1003", "1004", "1005", "1006"]**

# List of Instructors names

instructorName=["Robert Smith", "Natasha Anderson", "James Nassimi", "Guiling Wei", "Mary Harnett", "David Ochs",]

**#List of the instructors departments**

**instructorDept=["CMPT", "MATH", "BIOL", "CMPT", "BIOL", "CMPT"]**

**departmentName=["CMPT", "MATH", "BIOL"]**

departmentLocation=["RLC", "RLC", "LEO"]

departmentBudget=["75000", "55000", "60000"]

# 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.Exit**

**""")**

#While loop that displays the menu until user selects option 4

**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 instructorID:

idIndex=instructorID.index(id)

name=instructorName[idIndex]

dept=instructorDept[idIndex]

deptIndex=departmentName.index(dept)

location=departmentLocation[deptIndex]

print("\nInstructor Name: "+name)

print("Affiliated department: "+dept)

print("Location: "+location)

else:

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

**# Displays the following information if user selects option 2**

**elif ans=="2":**

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

**if department in departmentName:**

**deptIndex=departmentName.index(department)**

**location=departmentLocation[deptIndex]**

**budget=departmentBudget[deptIndex]**

**print("\nDepartment Location: "+location)**

**print("Department Budget: $"+str(budget))**

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

**for i in range (len(instructorName)):**

**if instructorDept[i]==department:**

**print(instructorName[i])**

**else:**

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

#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:")

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

if(department not in departmentName):

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

if (id in instructorID):

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

**instructorID.append(id)**

**instructorName.append(name)**

**instructorDept.append(department)**

# Print goodbye if user selects option 4

**elif ans=="4":**

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

break

else:

print("\n Not Valid Choice Try again")