CIS 40 - Assignment 8

This assignment is partner work. Please choose one person to work with. Both people's names should be at the top of the .py file.

Make sure you work together with your partner. If one person does all the work, the non-participating partner will not be prepared for the exam.

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Write a Python script that will help CIS students look up classes that fit their schedule.

The script works with the input file labInput.txt.

The labInput.txt file contains the schedule of CIS classes in Winter quarter (taken from deanza.edu)

Each line of labInput.txt is for one class and has 3 fields: the class number, class full name, day and time. The 3 fields are separated by 1 tab.

The script has test driver code that will:

- let the user append a class to lab8input.txt
- loop to let the user search for a class name and time, and then print the search result, until the user chooses to stop

The script contains 4 functions:

1. addClass:
   - prompt the user for a class number, class name, class day and time
   - append the new class information as a line in the lab8input.txt file, in the correct format: 3 fields separated by tab
   - print an acknowledge message that the class has been added

2. getName:
   - prompt the user for a class name keyword for searching (such as C++, Programming, Introduction...)
   - return the name

3. getDayOrTime:
   - prompt the user for a day or time of the class to be searched (such as AM, TTh, 9:30...)
   - return the day/time

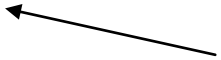
4. searchClass:
   - accept 2 input arguments: the name and the day/time values
   - search for matching lines in lab8input.txt
   - either: print all lines of lab8input.txt that matches the name and the day/time, then print the total matches
     or: print "no match"

Write test driver code so that the user can keep searching for classes until they choose to stop. You can decide with your partner how the user can stop (y/n answer to continue, or enter "none" for class name, or enter "bye", etc.) but prompt clearly so the user knows.

Sample program output is on next page.

```
Enter class number to add: CIS-999-99
Enter class name: Programming
Enter class day and time: 10:30 AM - 10:31 AM F
Added Programming

Enter class name to search: Programming
Enter class day or time: AM
Class(es) matching Programming and AM
CIS-022A-01Y    Beginning Programming Methodologies in C++      09:30 AM-11:20 AM TTh
CIS-022A-03Y    Beginning Programming Methodologies in C++      09:30 AM-11:20 AM MW
CIS-022A-06Y    Beginning Programming Methodologies in C++      11:30 AM-01:20 PM MW
CIS-022A-08Y    Beginning Programming Methodologies in C++      08:30 AM-09:20 AM MTWTh
CIS-022B-01Y    Intermediate Programming Methodologies in C++   09:30 AM-11:20 AM MW
CIS-022B-04Y    Intermediate Programming Methodologies in C++   11:30 AM-01:20 PM MW
CIS-036A-01Y    Introduction to Computer Programming Using Java 11:30 AM-01:20 PM TTh
CIS-040.-01Y    Introduction to Programming in Python   08:30 AM-09:20 AM MTWTh
CIS-999-99      Programming     10:30 AM - 10:31 AM F
Total: 9 classes
Continue? y/n: y
Enter class name to search: C++
Enter class day or time: Sat
Class(es) matching C++ and Sat
No match
Continue? y/n: y
Enter class name to search: Java
Enter class day or time: MW
Class(es) matching Java and MW
CIS-035A-61Y    Java Programming        06:00 PM-07:50 PM MW
CIS-035B-62Y    Advanced Java Programming       08:00 PM-09:50 PM MW
CIS-036A-63Y    Introduction to Computer Programming Using Java 06:00 PM-07:50 PM MW
CIS-036B-01Y    Intermediate Problem Solving in Java    03:30 PM-05:20 PM MW
Total: 4 classes
Continue? y/n: n
>>>
```



new class shows up in search