

CMSY 156 - Lab 8

Please submit .py files as well screenshot of the output

Problem 1 CourseInfo

Write a program that creates a directory containing course numbers and the room numbers of the rooms where the courses meet. The dictionary should have the following key-value pairs:

```
Course Number (key) Room Number (value)
CS101 3004
CS102 4501
CS103 6755
NT110 1244
CM241 1411
```

The program should also create a dictionary containing course numbers and the names of the instructors that teach each course. The dictionary should have the following key-value pairs:

```
Course Number (key) Instructor (value)
CS101 Haynes
CS102 Alvarado
CS103 Rich
NT110 Burke
CM241 Lee
```

The program should also create a dictionary containing course numbers and the meeting times of each course. The dictionary should have the following key-value pairs:

```
Course Number (key) Meeting Time (value)
CS101 8:00am
CS102 9:00am
CS103 10:00am
NT110 11:00am
CM241 11:00pm
```

The program should let the user enter a course number, and then it should display the course's room number, instructor, and meeting time.

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Problem 2 `EmailAddress`

Write an address book program that stores your contacts' names and their email addresses.

The names and email addresses are originally stored in a file called `phonebook.in`, in the format:

```
Harry Potter
theboywholived@hogwarts.edu
Hermione Granger
brightestwitch@hogwarts.edu
Ron Weasley
roonilwazlib@hogwarts.edu
Draco Malfoy
myfatherwillhearaboutthis@hogwarts.edu
Severus Snape
halfbloodprince@hogwarts.edu
Albus Dumbledore
alasearwax@hogwarts.edu
```

Your program should read from the file, storing the names and corresponding email addresses in a dictionary as key-value pairs. Then, the program should display a menu that lets the user enter the numbers 1 through 5, each corresponding to a different menu item:

- 1) look up an email address
- 2) add a new name and email address
- 3) change an email address
- 4) delete a name and email address
- 5) save address book and exit

When the user enters 1, the program should prompt them for a name, and then print the corresponding email address. If there is no dictionary entry under that name, the program should print, "Sorry, no contact exists under that name."

When the user enters 2, the program should prompt them for a name and an email address, then add a new key-value pair to the

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dictionary.

When the user enters 3, the program should prompt them for a name and a new email address for that contact. It should change the value of the corresponding dictionary entry to match the new email address.

When the user enters 4, the program should prompt them for a name and delete the corresponding dictionary entry.

When the user enters 5, the program should write the names and email addresses in alphabetical order by first name to the file phonebook.out.