

CS 115 - Introduction to Programming in Python

Lab Guide 05

Lab Objectives: Tuples, Lists, Dictionaries

1. Write a program that is used to store and retrieve information about restaurants and their rating levels. Your program should do the following:
 - a. Create a dictionary where the keys are star ratings (from * to *****), and the values are a list of restaurants. Each restaurant is stored as a tuple containing the restaurant name and a list of their phone numbers.
Ex: ('Trilye', [312 447 12 00, 312 447 12 01])
 - b. Read the file, restaurants.txt, and add the data about star ratings and restaurants to the dictionary.
 - c. Implement the menu shown in the sample run below.
 - i. 1) Find by Restaurant – inputs the restaurant name and displays the phone numbers of the given restaurant.
 - ii. 2) Find by Rating – Displays all restaurants with the given rating.

Sample Run:

```
1) Find by Restaurant
2) Find by Rating
3) EXIT
Choice:1
```

```
Enter restaurant name: Trilye
Trilye phone number are: ['312 447 12 00', '312 447 12 01']
```

```
1) Find by Restaurant
2) Find by Rating
3) EXIT
Choice:2
```

```
Enter rating to search: *****
Trilye ['312 447 12 00', '312 447 12 01']
Mezzaluna ['312 467 58 18', '312 266 58 18']
Luigi ['530 915 64 75', '530 915 64 74']
```

```
1) Find by Restaurant
2) Find by Rating
3) EXIT
Choice:3
```