

# CS 115 - Introduction to Programming in Python

## Lab 04

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### Lab Objectives: Strings, Files, Modules

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#### Notes:

- You should only use functionality covered in CS115 in your solution.
  - Your solution for this lab should not use lists, tuples, dictionaries.
  - Do NOT use the string `split()` function.
  - Include a docstring for your functions.
1. Download the files `orders.txt`, `customers.txt`.
  2. Create a module, `order.py` that contains the following functions:
    - a. `find_order()`: takes a string file name and a customer name as parameters. Returns the order id of the customer with the given name. If no customer is found, returns -1. The customer name is not case sensitive.
    - b. `find_order_items()`: takes a file name and an order id as parameters. Returns the total cost, and string set of items for the order with the given id. If the order id is not in the file, total cost will be zero and the (string) set of items will be an empty string.
  3. Write a script, `yourname_order_app.py` that inputs the name of a customer from the user. Using functionality defined in the module, your program should display the items ordered by the customer and the total cost of the order. If customer/order is not found, display a meaningful message (see sample run below). Append the customer name and total cost to a file with the name `<order_id>.txt`. The program should keep inputting customer names and searching orders until the user inputs 'exit' to quit (not case sensitive).
  4. Upload `order.py` and `yourname_order_app.py` in a zip file with the name: `Lab04_yourname.zip`.

#### Sample Runs:

```
Enter customer name to search(exit to quit): Anna Karpat
Order Summary:
pinar organic milk
uno whole wheat bread
chicken wings
Barilla Spaghetti
Total Order Price: 43.8
```

```
Enter customer name to search(exit to quit): Sara Glen
Customer Not Found!
```

```
Enter customer name to search(exit to quit): Selina Roberts
Order Not Found!
```

```
Enter customer name to search(exit to quit): MERT EREN
Order Summary:
broccoli
uno lavas
ground beef
Total Order Price: 74.85000000000001
```

```
Enter customer name to search(exit to quit): exit
```