

CS 162

Programming Lab 4

For this exercise, you will create a dictionary from three lists and then save the data as a CSV file.

Program Specification

This program is an introduction to dictionaries and CSV files, but it also is a review of file access and working with lists. For this, as in all assignments, you are expected to follow the course programming style guidelines and to properly implement and import modules for your functions and any constants. All input should be validated.

You will create a list of dictionaries similar to the one shown here.

```
[{'food': 'pears', 'type': 'fruit', 'amount': '10'}  
 {'food': 'salmon', 'type': 'fish', 'amount': '5'}  
 {'food': 'crackers', 'type': 'starch', 'amount': '12'}]
```

To create this list, you will start with the following three lists. You should use the names of the lists for the keywords in your dictionaries.

```
Lnumbers = ["L00312", "L00526", "L00497", "L00274", "L00456", "L00963"]  
Names = ["Bob", "Sue", "Mary", "Bill", "Ann", "Fred"]  
GPA = [3.4, 3.9, 4.1, 3.8, 3.5, 2.6]
```

Consider these three lists as parallel lists, that is for each index the Lnumber, name, and GPA should be together in a line of the data.

Once you have created the list of dictionaries, you will export it as a CSV file using the csv module in Python. Your code should be part of a main() function.

You will submit your program together with the resulting file.