**Homework 5**

**Due: Sunday (see Syllabus)**

**Points: 40**

**Instructions**

Write a program that repeatedly asks the user to enter a list of numbers or strings. The items do not need to be all the same type. If the user does not enter a list of a length that is not a multiple of 3, then the program asks the user to enter a different list.

Your program slices the list into 3 equal parts (each of which will be a list). Your program then reverses the contents of each of these parts. Finally, your program displays a list composed of those 3 reversed parts. Your program repeats until the user enters an empty list.

Use a fruitful function to perform the splitting and reversing. Your main driver code should handle the input/output and looping.

Run your program several times using different inputs – sufficient to demonstrate that your program meets all the assignment requirements. Capture a screen shot of each run and paste them into an MS Word document. Place a caption above each image.

**Submit the Python .py file (lastname\_hw5.py) containing your program and the MS Word document** **to your instructor using the appropriate Assignment Submissions link.**

Text

Description automatically generated

**Sample Output:**