Lecture #11 Problem Set

Engineering 104 - Fundamentals of Engineering Computing

Formatting, Organization & Code Comments - Complete the following problems in `Python` and include as part of the submission of the appropriate assignment. Your assignment file should include a proper heading, comments and show clear organizational structure with each problem clearly printed, separated and with each result variable clearly displayed. All problems worked should have a formatted/structured print-out. Print a string denoting each problem, with the solution to the problem clearly printed as a formatted string below the denoted problem. Separate each problem using a blank line in both the code and the printed results. Code comments should be completed throughout the file on every line of code by default. If this assignment requires you to write and submit additional auxiliary script, or any other files in the submission, please append your initials capitalized to the end of the file name.

Python, Problem Set for Day 2.7 - Tuples & Dictionaries (5 Points)

Problem 11.1 (1 Point) - There is a tuple called ***`tuply`*** *which has 3 lists in it:*

```
[1, 2, '3'],['apple','pineapple','pineapplepieeeee'],[5, 6, '7']
```

Please create this tuple and access the lists to ***modify*** *`'pineapplepieeeee'` to `'pineapplepie'`. As a comment explain why this modification is possible and what would happen, and why, if you tried to replace the entire list in this position.*

Problem 11.2 (1 Point) - Create a dictionary called ***`river`*** *that contains keys of the names of five major rivers in the world and values of at least one country the river flows through.*

Problem 11.3 (2 Point) - Create a dictionary that defines numbers from 1-15 in english and a second language of your choosing. Print at least one example from the dictionary to see if you can check the values with a specific key.

Problem 11.4 (1 Points) - Create a nested dictionary of your choosing. As a comment explain how your dictionary is structured to make it a nested dictionary.