SE126 : 202020

Lab #4A

4A. In Python, process the text file “lab5.txt” to store each field into its own corresponding list:

**FIELD0 FIELD1 FIELD2 FIELD3 FIELD4**

Firstname Lastname Age Nickname House Allegiance

**Then:**

* **Process** the lists to print the them as they appear in the file
* **Re-process** the lists to add the House Motto (dependent on Field4/Allegiance)
  + Re-Process the lists to print each record fully with the House Mottos
* **Re-process** the lists to find the average age within the list, then
  + Print the total number of people in the list
  + Print the average age
  + Print tallies for each allegiance (Field4)

**Rubric for 4A:**

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| --- | --- |
|  | Points |
| Documentation:   * Name, Lab # [5] * Variable Dictionary [5] * Starting Documentation [5] * Documentation of Program [5]   \*At least new material should be documented with notes to yourself\* | 20 |
| Program Runs without Errors | 20 |
| "Clean" Display   * Organized, Formatted, Thoughtful * Output is formatted correctly (see sample output) * All printed columns are aligned | 10 |
| Lab Specific: New Material:   * Program stores file data into LISTS * Program processes the LIST data to   + print each record from the file   + print each record again with added House Motto   + process the lists to find average age | 25 |
| Lab Specific: Core Concept   * Accurate Output values   + All records are printed accurately with original file data and again with accurate file date + house mottos   + Total people in the file   + Average age   + Allegiance Tallies * List names are descriptive * 3 different for loops are used to process/re-process list data | 25 |
| Total | 100 |