Python IV - Lesson 16

Date: Sep 25, 2022

Agenda

- Pycharm
- Inheritance
- ▶ GIT



Proverbs 10:9

"Whoever walks in integrity walks securely, but whoever takes crooked paths will be found out."

In-class exercise: Create country_stats.py in Lesson16

folder

- 1. We have a average_heights_and_weights dictionary, please write the following functions:
 - get_avg_weight(country)
 - get_avg_avg_weight()
 - add_new_country()
 - update_country_stats(country)

```
average_heights_and_weights = {
    'Canada' : (185, 150),
    'United States' : (186, 158),
    "India" : (180, 156),
    "Brazil" : (181, 149)
}
```

In-class exercise: Create data_structure.py in Lesson16 folder

- 1. We have a list of tuples, e.g. [(0, 1), (0, 9), (5, 7), (2, 4)]
 - write a function to find the tuple with the largest sum
 - Each tuple in the list should have 2 numbers in it. The function should return the tuple with the biggest second number.
- 2. We have a letters_to_numbers dictionary:
 - write a function that will take a string as an argument and use the letters_to_numbers dictionary to replace any letters it can with numbers

```
letters_to_numbers = {
    'a': 0,
    'b': 1,
    'c': 2,
    'd': 3,
    'e': 4
}
```

 Write a function that returns the longest word from a string. (A word is any sequence of characters separated by whitespace)

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In-class exercise: Create athletes.py in Lesson16 folder

- 1. Let's explore the athlete_events.csv
- 2. Learn from https://colab.research.google.com/notebooks/mlcc/intro_to_pandas.ipynb#scrollTo=aSR u62xUi3g
- 3. Work on https://colab.research.google.com/drive/1GwzDroONxUIMq4sKkoMRTeZqNDwH1yMV#scrollTo=g4gjBobo74sb