Pseudocode - main.py

Author: Andres Rodriguez Toca

Class: COP1047C-2197-15601

10/3/2019

- 1. Declare variables for the **number of organisms** as an integer, **average daily population increase** as a float, an **average increase** variable to store the average daily population as a float, **number of days** as an integer and a counter beginning on 2(integer).
 - a. numberOrganism = 0
 - b. dailyPopulation = 0.0
 - c. averageIncrease = 0.0
 - d. numberDays = 0
 - e. counter = 2
- 2. Display a text to the user in order to get the number of organisms and save that number on a variable
- 3. Check if the user provides a valid number
- 4. Display a text to the user in order to get the average daily increase and save that number on a variable
- 5. Check if the user provides a valid number
- 6. Display a text to the user in order to get number of days and save that number on a variable
- 7. Check if the user provides a valid number
- 8. Display a nice-looking header before the calculation
- 9. Display the first result only before the calculation
- 10. Calculate and predict the size of a population of organisms per day
- 11. Display each result per day

Example output:

```
Python 3.7.4 (default, Jul 9 2019, 00:06:43)
[GCC 6.3.0 20170516] on linux
Starting number of organisms: 2
Average daily increase: 5
Number of days to multiply: 12
                    Population
Day Approximate
23456789
         12.0
         2592.0
         15552.0
         93312.0
         559872.0
         3359232.0
10
         20155392.0
          120932352.0
12
         725594112.0
```