

Data Science Bootcamp Adnexio #1

Assignment 1

Instruction

- Answer all questions
- Upload and submit your answer in Jupyter Notebook file (.ipynb) via Google Classroom
- Name your jupyter notebook file as `firstname_assignment1.ipynb`

Assignment Questions

1. A person is eligible to be a US Senator if they are at least 30 years old and have been a US citizen for at least 9 years. Write a program to identify if the person is eligible to be US Senator based on the input age and years of US citizenship.
2. A store charges \$10 per item if you purchase less than 10 items. If the number of your purchase are 10 to 50 items, it will cost you only \$8 per item. If you buy more than 50 items, the cost is \$5 per item. Write a program that ask the user how many items they are buying and prints the total cost based on the condition given.
3. Write a program that ask the user for a weight in kilograms and converts it to pounds. Whenever the user enters a weight below 5, the program should tell them that their entry is invalid and then ask them again to enter the right weight.
4. Create a Pandas DataFrame according to the following table. Define the dataframe as `df`.

List A	List B	List C
10	100	1087
20	150	2180
30	200	3019
40	500	1198
50	700	2708

5. Using DataFrame `df` created in Question 4, plot a scatter-plot of `List B` versus `List A`.