Python for Data Analysis and Visualization (Spring 2024)

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Session 4 In-class Exercises

Exercise One:

1. From the SAFI_results.csv file extract all of the records where the C01_respondent_roof_type (index 18) has a value of 'grass' and the C02_respondent_wall_type (index 19) has a value of 'muddaub' and write them to a file.

2. Within the same program write all of the records where C01_respondent_roof_type (index 18) has a value of 'grass' and the C02_respondent_wall_type (index 19) has a value of 'burntbricks' and write them to a separate file.

   In both files include the header record.

Exercise 2:

1. Create a dictionary called dict_roof_types with initial keys of type1 and type2 and give them values of 1 and 3.
2. Add a third key type3 with a value of 6.
3. Add code to check if a key of type4 exists. If it does not add it to the dictionary with a value of 1 if it does, increment its value by 1
4. Add code to check if a key of type2 exists. If it does not add it to the dictionary with a value of 1 if it does, increment its value by 1
5. Print out all of the keys and values from the dictionary