

Homework 3

Please write a python method for each question and submit your solution to sucourse before due date.

Submission Rules;

- You should create only one file for all questions
- You should put your solutions into separate cells.
- Your file names should contain your name and last name.

E.g.

AhmetDemirelliHomework4.ipynb

- You cannot use Turkish characters in your file names or variable names
- You should write the question number as a comment before each method name.

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1. Write a method that takes two words and checks if two words are composed of the same letters.

def sameLetterCheck (word1, word2)

E.g.:

meta, tema → true
ekrem, kerem → true
silah, ihlas → true
mammut, mamut → false

2. Write a method that returns the count of palindromes in a given file.

Input → "palindromes.txt"
Output → 8

3. Write a method that returns only distinct words from a given file.

Input → "meyveler.txt" (you should create this file manually)
Output → {"elma", "armut", "şeftali", "muz", "ananas",
"kayısı", "portakal", "karpuz", "nar", "üzüm"}

meyveler.txt

```
elma armut şeftali muz
ananas kayısı şeftali
portakal armut nar muz
kayısı üzüm ananas elma
karpuz nar muz şeftali
armut ananas portakal nar
```

4. Write a method that translates a given file containing Turkish words into English and writes into another file. (There will be only 10 predefined distinct words in the file.)
Hint: Keep the translation information in a **dict**

Input (names of the files) → (“turkish.txt” , “english.txt”)

Output → no output

turkish.txt

```
elma, armut, şeftali, muz,
ananas, kayısı, şeftali,
portakal, armut , nar, muz,
kayısı, üzüm, ananas, elma,
karpuz, nar, muz, şeftali,
armut, ananas, portakal, nar
```

english.txt

```
apple, pear, peach, banana,
pineapple, apricot, peach,
orange, pear , pomegranate, banana,
apricot, grape, pineapple, apple
watermelon, pomegranate, banana, peach,
pear, pineapple, orange, pomegranate
```

5. Write a method that reads (using numpy loadtxt. method) the date and the dollar value information from given text file and draws a graph using matplotlib.

(You can download and use **dolar.txt** file from SUCourse+)

Sample scatter plot for all data ;

