Homework 4

Please write a python method for each question and submit your solution to sucourse before due date.
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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 returns the count of palindromes in a given file.

    Input → "palindromes.txt" (There is no sample file, you should create this file manually)
    Output → 8

2. 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

3. 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

4. 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 ;