Homework 3

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.
  AhmetDemirelliHomework3.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 checks if a given String is palindrome and returns a True or False

   def <u>isPalindrome (word)</u>
   {
   }
   E.g.:
   Input → Rotator
   Output → True

   Input → Ey Edip Adanada pide ye
   Output → True

2. Write a method that takes a String and converts the last character of all words to uppercase
   letters in a given String.

   Input → " evvel zaman içinde kalbur saman içinde"
   Output → "evveL zamaN içindE kalbuR samaN içindE"

3. Write a method that returns the longest palindrome in a given sentence.
   Input → "Otoyolda iki adet radar var ama arabada küllük yok." → (☺ (nonsense))
   Output → "küllük"

4. Write a method that takes 3 lists and prints the output shown below. Check the arrays and
   console output below and try to write a method that prints the same output.

   Given lists;

   products = ["Computer","Table","Chair"]
   prices = [3000, 250, 80]
   counts = [3, 2, 8]

   output should be;

   We have 3 Computers, each one is 3000 TL and the total price is 9000 TL
   We have 2 Tables, each one is 250 TL and the total price is 500 TL
   We have 8 Chairs, each one is 80 TL and the total price is 640 TL

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

    <u>def sameLetterCheck (word1, word2)</u>

E.g.:
    meta, tema → true
    ekrem, kerem → true
    silah, ihlas → true
    mammut, mamut → false