

Assignment 2

Question 1:

You are required to write a program to sort the (name, age, height) tuples by ascending order where name is string, age and height are numbers. The tuples are input by console. The sort criteria is:

1: Sort based on name;

2: Then sort based on age;

3: Then sort by score.

The priority is that name > age > score.

If the following tuples are given as input to the program:

Tom,19,80

John,20,90

Jony,17,91

Jony,17,93

Json,21,85

Then, the output of the program should be:

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[('John', '20', '90'), ('Jony', '17', '91'), ('Jony', '17', '93'), ('Json', '21', '85'), ('Tom', '19', '80')]
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Question 2:

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s = u"""DTU course 02820 is taught by Mr. Bartlomiej Wilkowski, Mr. Marcin Marek Szewczyk & Finn
Arup Nielsen, Ph.D. Some of aspects of the course are: machine learning and web 2.0. The telephone
to Finn is (+45) 4525 3921, and his email is fn@imm.dtu.dk. A book published by O'Reilly called
'Programming Collective Intelligence' might be useful. It costs $39.99 or 285.00 kroner in Polyteknisk
Boghandle. Is 'Text Processing in Python' appropriate for the course? Perhaps! The constructor function
in Python is called "__init__()". fMRI will not be a topic of the course."""
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Split the text in words and sentence .

Question 3:

Write a program that accepts a sentence and calculate the number of upper case letters and lower case letters.

Suppose the following input is supplied to the program:

Hello world!

Then, the output should be:

UPPER CASE 1

LOWER CASE 9