

Problem 1.

Create the script **problem1.py**, which gets 3 positional command line arguments of type String: **text**, **first_word**, **second_word**. Print the new version of the given **text**, replacing all the occurrences of the **first_word** in **text** with the **second_word** in the following format:

“The given text: This text is a sample text. ”

“First word: text”

“Second word: image”

“Output string: This image is a sample image. ”

Problem 2.

Create the script **problem2.py**,

- 1) Import **datetime**, **time** and **calendar** modules
- 2) Print on separate lines`:
 - a) The date of your birthday
 - b) The year of your birthday (using the appropriate function on the date of your birthday)
 - c) The month of your birthday (using the appropriate function on the date of your birthday)
 - d) The day of your birthday (using the appropriate function on the date of your birthday)
 - e) Find and print the weekday of your birthday
 - f) Find and print how many days are left till your upcoming birthday
- 3) Print the calendar of May 2017
- 4) Print yesterday's date and time
 - a) Add 2 days to yesterday's date and time and print the result
 - b) Subtract 3 days from yesterday's date and time and print the result

Problem 3.

- 1) Create the list **a** with the following values: **1, 4, 5, 7, 8, -2, 0, -1**
- 2) Print the values of list **a** at indices **3** and **5**
- 3) Sort the list **a** in a decreasing order and assign the newly obtained list to the variable **a_sorted**, the list **a** should not be changed
- 4) Print the 2 sublists of the list **a_sorted** containing the indices 1...3 and 2...6
- 5) Delete the values at indices **2** and **3** from **a_sorted**
- 6) Print the list **a_sorted**

- 7) Create the list **b** with the following values: **"grapes", "Potatoes", "tomatoes", "Orange", "Lemon", "Broccoli", "Carrot", "Sausages"**
- 8) Sort the list **b** in an increasing order and assign the newly obtained list to the variable **b_sorted**, the list **b** should not be changed
- 9) Create a new list **c**. The first 3 values of the list **c** should be the elements from the list **a** at indices 1...3 and the last values of the list **c** should be the elements from the list **b** at indices 4...6.
- 10) Print the list **c**

Problem 4.

Create the dictionary **market** with the following values: **{"dairy": ["yogurt", "cheese"], "fruits": ['banana', 'apple', 'orange', 'lemon', 'apple', 'banana', 'banana']}**. Add the key **"candies"** with a value **['mars', 'kinder', 'twix']** to the dictionary **Market**: Sort the values at the key **"fruits"** in an increasing order and get rid of the duplicate values: Print the dictionary **Market** before and after the changes.