SCHOOL
HIGHER
MEDIA
ART
AND DESIGN
POLYTECHNIC
FROM PORTO

ALP

EXERCISE SHEET

ACADEMIC ACTIVITY

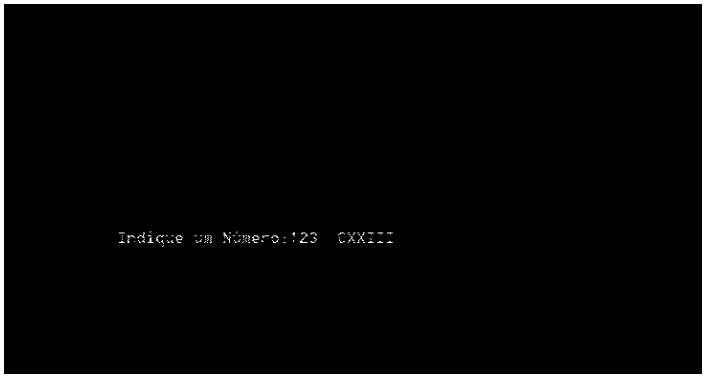
Algorithms and Data Structures

CURRICULAR UNIT

Sheet 05 – Strings - EXTRA

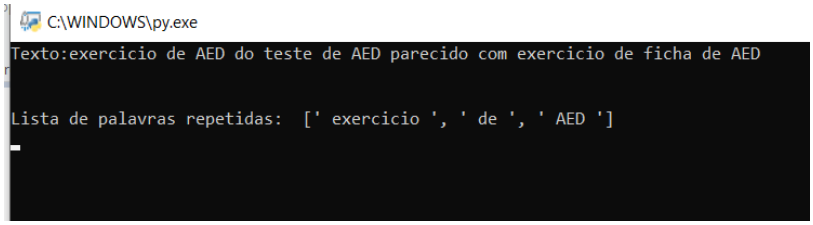
1. Implement the **romanNumeral** function that receives a number between 1 and 999 (user request) and returns the same value in Roman numerals

   Roman numeral table:
   https://pt.wikipedia.org/wiki/Roman Numbers



2. Write a **convertTexto** function that receives a text and returns the same text, but replacing all digits (from 0 to 9) with the corresponding full text.
   Example:
   texto= “Rua 9 de Abril, numero 12”
   convertText(texto)
   Expected result: Rua nove de Abril, numero um dois”

3. Implement a Python program that reads a text and then calls the **countRepeat** function, which receives the text as an input argument and returns a list of words, contained in that text, that appear more than once. When searching for repeated words, you should not distinguish between upper and lower-case letters.



After printing the list of repeated words (as in the image above), your program should ask if the user wants to insert new text (Y/N). If so, perform the same procedure again