EXERCICE 1

WHAT YOUR PROGRAM SHALL DO

We want to manage the number of students per class, so we use a dictionary:

- The key is the name of the class *(ex : "2021C")*
- The value is the number of students

INPUTS:

- 1 dictionary STRING (key) -> INTEGER (value) :
  {"2021A": 20, "2021B": 30, "2021C": 15 }

OUTPUT:

- Print for each class the number of students as follows:
  Class 2021A has 20 students
  Class 2021B has 30 students
  Class 2021C has 15 students

EXERCICE 2

WHAT YOUR PROGRAM SHALL DO

We want to manage the number of students per class, so we use a dictionary:

- The key is the name of the class *(ex : "2021C")*
- The value is the number of students

We want to add students in a class

INPUTS:

- 1 dictionary STRING (key) -> INTEGER (value) :
  {"2021A": 20, "2021B": 30, "2021C": 15 }

- Number of students to add:
  4
- Class to add students
  2021A

OUTPUT:

- Print for each class the **new** number of students as follows:
  Class 2021A has 24 students
  Class 2021B has 30 students
  Class 2021C has 15 students

EXERCICE 3

WHAT YOUR PROGRAM SHALL DO

We want to manage the number of students per class, so we use a dictionary:

- The key is the name of the class *(ex : "2021C")*
- The value is the number of students

We have 2 dictionaries and we want to merge them into 1

INPUTS:

- 2 dictionary STRING (key) -> INTEGER (value) :

{"2021A": 20, "2021B": 30, "2021C": 15 }

{"2021A": 15, "2021C": 10, "2021D": 99 }

OUTPUT:

- Print the dictionary, resulting from the merge of the 2 given dictionaries

{"2021A": 35, "2021B": 30, "2021C": 25, "2021D": 99 }

Explanation: *Here, for class 2021A the first dictionary gave us 20 students and the second one 15 students. SO the total number of student will be 35 for class 2021A*

EXERCICE 4

WHAT YOUR PROGRAM SHALL DO

INPUTS:

- 1 string

good !

OUTPUT:

- A dictionary :
  - The key is the character (one key per character in the string)
  - The value is the occurrence of the character in the string (example : here we have 2 “o”)

{"g": 1, "o": 2, "d": 1, "!": 1}

Warning: we don’t count the white characters! (skip them)