ANKARA UNIVERSITY

COMPUTER ENGINEERING DEPARTMENT

Computer Programming 1

Fall 2020-21

LAB2 Quiz
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Date: 06/11/2020

Write a Python program which takes a set of inputs that contain strings, positive integers and floating point numbers in mixed order, prints the sum of the integers, sum of the floats and concatenation of the strings in separate lines in this order.

Specification details:

- There is no specific order in the given literals.
- Input may not provide any integers, or floats or strings. Your program should not print any value if an item of that type is not provided. For example, if no int item is provided, then print no value for integers. Similar for floats and strings..Please look at the sample outputs if it is not clear.

Constraints:

- You are not allowed to use ***any*** string class functions, such as **str.isnumeric()** or **str.isdigit()** etc**.** You need to identify the type of the items by inspecting individual characters in it (see the Hint below)
- Floating point numbers will only be provided using dot (.) convention; and dot (.) will only appear in float numbers, i.e. strings will not contain any dots.

Hints:

You will read the input using:

```
inputs = map(str, input().split())
```

After reading, ***inputs*** variable is bound to a sequence (list) of strings. You can iterate over the individual items using **`in`** operator in a for loop, i.e. similar to iterating over a range of values using the range function; e.g. **`for item in inputs:`**.

You are expected to implement your own solutions to determine if a particular string contains an integer or a float number using iterations over the characters in the string. As we have seen, you can iterate over individual characters of a string, ***str***, using **`in`** operator; e.g. **`for chr in str:`**

I/O Format:

Input format: [[positive integer]*[Space][float]*[Space][string]*[Space]]*

Output format:<sum_of_ints_if_given>[Newline]<sum_of_floats_if_given>[Newline]<concat_of_strings_if_given>[Newline]

Note that:

1- Sample input and output files are provided.

2- [x]* means, zero or more elements of x

Submission:

1- Name your Python source file as <student_id>.py; replace <student_id> using your student id number.

2- Upload your python file using the interface provided in e-kampüs course page.