TPOP PRACTICAL

ITERATION

PRACTICAL 03 - level 0

Question 1:

Write a script that counts and prints the number of digits characters (i.e. 0,1,..,9) in a sentence. The sentence should be entered by a user.

For example, the sentence "The storming of the Bastille took place on 14 July 1789." Should print the value 6.

Note: you can use the method digit() from the str type to check if a letter is a digits as shown below.

```
>>> '2'.isdigit()
True
>>> 'a'.isdigit()
False
>>>
```

Question 2:

Without using a computer (e.g. do it manually), explain what the code below is doing, and what is the value that will be printed

Question 3: Where's that bug!

You have just started your placement, and you are given a piece of code to correct. The aim of the script is to take a 2D list (i.e. a list of lists) and print a list containing the sum of each list. For example, given the list in data, the output should be [6, 2, 10].

Modify the code below such that it gives the right result.

```
data = [[1,2,3], [2], [1, 2, 3, 4]]
output =[]
total = 0

for row in data:
    for val in row:
        total += val
        output.append(total)
print(output)
```