# C3-S3 –PRACTICE

**EXERCICE 1**

**PROBLEM:**

As input, you have a list of words

* You need to create an array 2D, each word of the input list is an array containing each character of the word
* Each characters need to be converted to uppercase (use upper () function)

**INPUT**

* An array - a list of words

**OUPUT**

* An array 2D

|  |  |
| --- | --- |
| **INPUT** | **OUTPUT** |
| ['banana', 'cococnut', 'mango'] | [   ['B', 'A', 'N', 'A', 'N', 'A'],   ['C', 'O', 'C', 'O', 'C', 'N', 'U', 'T'],   ['M', 'A', 'N', 'G', 'O']  ] |
| ['banana'] | [['B', 'A', 'N', 'A', 'N', 'A']] |
| [] | [] |

**Q1** – What will be the output for the following input ?

|  |  |
| --- | --- |
| **INPUT** | **OUTPUT** |
| ['ronan', 'him '] | [[‘R’,’O’,’N’,’A’,’N’],[‘H’,’I’,’M’]] |

**Q2** – Do solve this problem:

* Do we need to loop on the list of word (the input array)?

Yes, we need the input array.

* Do we need to loop on each letter of each word?

Yes,we need loop.

**Q3** – This program contains 2 mains steps; can you complete the description the 2 steps?

**Step 1**: Find the position of array\_2D

**Step 2**: Write 0 at the position of ……………………………………………. And write \* at the position of… ……………………………………………

**Q4**– Write the code on space below to complete step 1 and step 2

*TIPS: you should use a function to write this code*

*// your code*

def listOfWord(array):

    array\_2D=[]

    for i in range(len(array)):

        wordArrray=[]

        for j in range(len(array[i])):

            wordArrray.append(array[i][j].upper())

        array\_2D.append(wordArrray)

    return array\_2D

array=["banana"]

print(listOfWord(array))

**Q5** – Share and discuss in groups of 3.

**Q6** – Code on your computer.