

CSC1015F Assignment 8A (Lab Question)

Arrays

Assignment Instructions

THIS QUESTION TO BE COMPLETED DURING YOUR LABORATORY SESSION

This assignment involves constructing Python programs that use input and output statements, control flow statements, statements that perform numerical manipulation, functions, and arrays and dictionaries.

Question 1 [30 marks]

A python module called 'format.py' is required that contains a function called 'right_justify' specified as follows:

```
def right_justify(digit_strings):  
    """  
    The function accepts a list of strings of digits of various  
    lengths as a parameter. It finds the length, le, of the longest  
    string and returns a new list where each string is a copy of the  
    original padded with leading zeroes to a width of le.  
    """
```

Example,

```
>>> format.right_justify(['002368', '9862', '100'])  
['002368', '009862', '000100']
```

Your task is to implement the 'right_justify' function.

You will find a skeleton of the required module on the assignment page that you must use. It contains a doctest script you can analyse to determine exactly what is required and that you can run to check your work.

(NOTE: Consider using an additional function called 'longest' that finds the length of the longest string in a list. Just saying.)

Submission

Create and submit to the automatic marker a Zip file called ABCXYZ123.zip (where ABCXYZ123 is YOUR student number) containing format.py.

NOTES:

1. FOLDERS ARE NOT ALLOWED IN THE ZIP FILE.
2. As you will submit your assignment to the Automarker, the Assignment tab will still say "Not Complete" or "In Progress" or something similar. THIS IS COMPLETELY NORMAL. IGNORE IT