COMP 125: Programming with Python, Fall 2021
Final – January 15, 2022

Question2 (25 points): 19:15-19:40 (should be submitted by 19:45)

Write the `build_dictionary()` function which is passed a list of strings parameter. The function returns a dictionary where

- keys are integers representing the length of the strings from my_list
- the corresponding values are a list of strings (from my_list) with length equal to the key
- empty strings in the my_list parameter are ignored

If my_list parameter is an empty list the function should return an empty dictionary. You may assume that my_list is either blank, or if not, always contains strings.

For example, executing the following code with the completed function for different values of my_list in the below table prints the corresponding value from the table. Note that my_list values in the below table are just **examples**. Your function should work for different my_list values passed to it.

```
my_list = ['']  # can be set different values. See examples in the table.
result = build_dictionary(my_list)
print(sorted(result))
```

my_list	Printed output
['orange','apple','grape','peanut']	{5:['apple','grape'], 6:['orange','peanut']}
['train', 'plane', 'boat', '']	{4:['boat'], 5:['train','plain']}
[]	{}

For this question, download the Q2.py file from Blackboard. Implement your code in this py file and then upload it to Blackboard before 19:45.