Assignment 4 - Tuple and dictionary

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A14. Python program to Sort a List of Tuples in Increasing Order by the Second element in Each Tuple.

```python
lst = [(2,30,6),(10,6,9),(20,25,40,100)]
sorted_lst = sorted(lst, key=lambda x: x[1])
print(sorted_lst)
```

A15. The program takes a string and counts the frequency of words appearing in that string using a dictionary.

```python
sentence = "this is a sample input string it contains
multiple words some of which are repeated words like this is
a sample and words appear more than once in this string"
dic = {}
sentence_list = sentence.split(sep=" ")
for word in sentence_list:
    if dic.__contains__(word):
        dic[word] = int(dic.get(word)) + 1
    else:
        dic[word] = 1
print(dic)
```

Output

```
PS C:\Users\hello\Documents\SEM3\PYTHON\Lab4> python .\A14.py
[(10, 6, 9), (20, 25, 40, 100), (2, 30, 6)]
PS C:\Users\hello\Documents\SEM3\PYTHON\Lab4> python .\A15.py
{'this': 3, 'is': 2, 'a': 2, 'sample': 2, 'input': 1, 'string': 2,
'it': 1, 'contains': 1, 'multiple': 1, 'words': 3, 'some': 1, 'of':
 1, 'which': 1, 'are': 1, 'repeated': 1, 'like': 1, 'and': 1, 'appe
ar': 1, 'more': 1, 'than': 1, 'once': 1, 'in': 1}
PS C:\Users\hello\Documents\SEM3\PYTHON\Lab4>
```