



Lab7



Lab 7: Ch10 Tuples

Prob. 1

Write a Python program to convert a string to a tuple. Find all the repeated letters and their occurrences (Note: show the repeated letters only, don't put non-repeated letter here).

```
The string is: hello world
The converted tuple is: ('h', 'e', 'l', 'l', 'o', ' ', 'w', 'o', 'r', 'l', 'd')
The repeated letter "l" has 3 occurrences in tuple
The repeated letter "o" has 2 occurrences in tuple
```

Prob. 2

In this module, we learned the 2nd way to sort dictionaries using tuples. Using **list of tuples**, write a Python program to sort key/value pairs from a given dictionary in ascending and descending orders. (Note: don't use the 1st way which we learned in module 2 to sort)

```
dict = {'item4':65, 'item2':25, 'item5': 234, 'item3': 31, 'item1':
Expected Output:
```

```
The print result in ascending order:
item1 => 105
item2 => 25
item3 => 31
item4 => 65
item5 => 234

The print result in descending order:
item5 => 234
item4 => 65
item3 => 31
item2 => 25
item1 => 105
```

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