# Exercises of chapter 5

1) Quick Check: Len()

```
Imagine:
```

Now look at the code below:

So, len(a) would be 1; And len(b) would be 0; And len(c) would be 2.

### 2) Try this: List Slices and Indexes

As the floor division (//) Divides and returns the integer value of the quotient, if we use this operator, we would obtain our result. Look at the code below:

### 3) Try This: Modifying Lists

Look at the code below:

>>> list = ['pen', 'pencil', 'backpack', 'pencil case', 'ruler', 'color pencils', 'sharpener', 'eraser', 'paper', 'book']

>>> list

['color pencils', 'sharpener', 'eraser', 'paper', 'book', 'pen', 'pencil', 'backpack', 'pencil case', 'ruler']

### \*4) Try This: Sorting Lists

Look at the code below:

Now the result would be:

## 5) Try This: List Operations

Index

In

Describes the position

Describes the position by true or false

If an element doesn't exist in the list, it returns an error.

6) Try This: List Operations

I) if item in x: x.remove(item)

II) if x.count(item) > 1:
 x.remove(item)

\*7) Try This: List Copies

One of the useful methods that can be used in this exercise is deepcopy() method after importing copy module:

>>> import copy >>> x = copy.deepcopy(x)

8) Quick Check: Tuples

Once data is assigned to a tuple, the values cannot be changed.

x = sorted(x)

9) Quick Check: Sets

Due to the unrepeatable elements of sets, we would have 0, 1, 2, 3, 5 and the tuple (1, 2, 3).

# 10) Examining a list: with open('lab\_05.txt') as infile: for row in infile: temperatures.append(float(row.strip())) min\_t = min(temperatures) max\_t = max(temperatures) mean\_t = sum(temperatures) / len(temperatures) temperatures.sort() median\_t = temperatures[len(temperatures) // 2] print("min = {}".format(min\_t)) print("max = {}".format(max\_t)) print("median = {}".format(median\_t)) print("mean = {}".format(mean\_t)) min = 0.8 max = 28.2

median = 14.7

mean = 14.848309178743966