

Lab 5: Lists

Due: Saturday, October 25th by 11:59 pm

Total points: 4

In this lab, you are going to practice list which is a type of sequence in Python.

First, create a new file in Thonny and save it. Name the file lab5_list_count.py.

Part 1:

Write a for loop that should iterate through `my_list` and return the number of times `element` occurs in the list.

Example:

If `my_list` and `element` have the following form:

```
element = 22
my_list = [21, 22, 33, 22, 13, 31, 22, 41]
```

Then your program should print:

```
>>> %Run lab5_list_count.py
The number 22 occurs 3 times
```

If you try again by having `my_list` and `element` with the following values:

```
element = "green"
my_list = ["green", "blue", "red", "blue", "green"]
```

Then your program should print:

```
>>> %Run lab5_list_count.py
The number green occurs 2 times
```

Part 2:

First, create another file in Thonny and save it. Name the file `lab5_collect_evens.py`.

You should create a list, named `items_list` which will contain a collection of integers. You should use a loop and determine which of the elements from `items_list` are even. Save a list of items that are even, in the order in which they appear in the list provided.

Example:

If `items_list` has the following form:

```
items_list = [43, 42, 99, 100, 4, 16, 19]
```

Should return:

```
>>> %Run lab5_collect_evens.py
[42, 100, 4, 16]
```