



CSc 110

Lists and For Loops

Adriana Picoral
(she/her/hers)

Implement print_card

```
def print_card(content):
```

```
    '''
```

The function should print out a text card, with the provided content as the text on the card.

For example, if content = "Hi There", then this function should print out:

```
+-----+
```

```
|  Hi There  |
```

```
+-----+
```

```
    '''
```

Implement print_card

```
def print_card(content):  
    length = len(content)  
    print('+--' + '-' * length + '--+')  
    print('|' + content + '|')  
    print('+--' + '-' * length + '--+')
```

Implement quiz

```
def quiz(words, definitions):
```

```
    '''
```

This function should select a random word form the list to quiz the user about.

Once a random index has been generated, use the `print_card` function to display the word, then the definition.

Use the `random` module!

```
    '''
```

for loops

- Another type of loop!
- Useful for iterating over or through lists, ranges, and data structures in general

Write a for-loop that produces the same output as the while-loop

```
values = [70, 20, 30, 35, 10, 7, 17, 50]
```

```
i = 0
while i < len(values):
    print(i)
    i += 1
```

Write a for-loop that produces the same output as the while-loop

```
values = [70, 20, 30, 35, 10, 7, 17, 50]
```

```
i = 0
while i < len(values):
    print(values[i])
    i += 1
```

Looping through *indexes* compared to Looping through *values*

```
for i in range(len(values)):
    print(i)
```

```
for i in values:
    print(i)
```


Write the code

What code goes here?

Use a for-loop

With this input:

ben kai jim jane johanness

Produce this output:

average name length = 4.4

Removing Elements

- **list.remove(value)**
 - Removes the first occurrence of **value** in the list
 - Raises an exception if the value does not exist in the list
- **list.pop(index)**
 - Removes the element at **index**
 - Raises exception if no value at **index**

Write a Python program to remove all elements from a given list present in another list.

```
def remove_items(original_list, items_to_remove):  
    # code goes here  
  
def main():  
    list1 = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]  
    list2 = [2, 4, 6, 8]  
    remove_items(list1, list2)  
    print(list1)  
  
main()
```