REFACTOR MAN



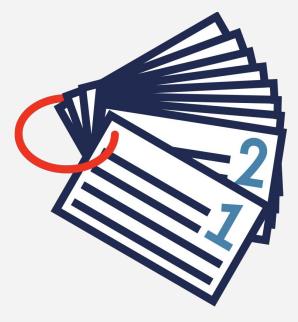
CSc 110 Lists

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Flash Cards

- An app for quizzing someone with simple, text-based "flash cards"
- User provides a number of cards to create, and then the word + definition for each card
- Then, quiz the user!



Flash Cards

Enter number of flashcards to create: 3 Word for card 1: Grace Definition for card 1: Favor; good will; kindness Word for card 2: Faith Definition for card 2: The assent of the mind to the truth of a proposition advanced by another Word for card 3: Peace Definition for card 3: In a general sense, a state of quiet or tranguillity

```
----+
 Faith |
----+
Press enter to continue
          The assent of the mind to the truth of a proposition advanced by another
          Press enter to continue
+---+
 Peace |
----+
Press enter to continue
          In a general sense, a state of quiet or tranquillity
```

import random

```
def print_card(content):
    ''' Print a card with the provided content '''
def quiz(words, definitions):
    ''' Quiz the user on a single random flashcard '''
def get_card(words, definitions, card_num):
    ''' Get a card from the user '''
```

def main():
 ''' What goes here? '''

main()

```
def main():
    words = []
    definitions = []
    num_cards = int(input('Enter number of flashcards to create: '))
    i = 1
    while i <= num_cards:</pre>
         get_card(words, definitions, i)
         i += 1
    while True:
```

quiz(words, definitions)

Activity

Implement get_card

This function should ask the user for two inputs: a word and the definition for that word. Then, it should add the word to the words list and the definition to the definitions list.

Can be done in 4 lines of code!

Implement get_card

def get_card(words, definitions, card_num):
 word = input('Word for card ' + str(card_num) + ': ')
 definition = input('Definition for card ' + str(card_num) + ': ')
 words.append(word)
 definitions.append(definition)

```
def get_card(words, definitions, card_num):
    word = input('Word for card ' + str(card_num) + ': ')
    definition = input('Definition for card ' + str(card_num) + ': ')
    words.append(word)
    definitions.append(definition)
```

```
def main():
    words = []
    definitions = []
    num_cards = int(input('Enter number of flashcards to create: '))
    i = 1
    while i <= num_cards:
        get_card(words, definitions, i)
        i += 1
    while True:
        guiz(words, definitions)</pre>
```

Implement print_card

def print_card(content):

1.1.1

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 + '--+')

Activity

Implement quiz

def quiz(words, definitions):

1 I I.

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!

. . .

Implement quiz

```
def quiz(words, definitions):
    random_index = random.randint(0, len(words) - 1)
    word = words[random_index]
    definition = definitions[random_index]
    print_card(word)
    print_card(definition)
```

Implement quiz

```
def quiz(words, definitions):
    random index = random.randint(0, len(words) - 1)
    word = words[random index]
    definition = definitions[random index]
    print_card(word)
    input('Press enter to continue ')
    print card(definition)
    input('Press enter to continue ')
```

```
import random
```

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

```
def quiz(words, definitions):
    random_index = random.randint(0, len(words) - 1)
    word = words[random_index]
    definition = definitions[random_index]
    print_card(word)
    input('Press enter to continue ')
    print_card(definition)
    input('Press enter to continue ')
```

```
def get_card(words, definitions, card_num):
    word = input('Word for card ' + str(card_num) + ': ')
    definition = input('Definition for card ' + str(card_num) + ': ')
    words.append(word)
    definitions.append(definition)
```

```
def main():
    words = []
    definitions = []
    num_cards = int(input('Enter number of flashcards to create: '))
```

```
i = 1
while i <= num_cards:
    get_card(words, definitions, i)
    i += 1</pre>
```

```
while True:
```

```
quiz(words, definitions)
```

main()