

REFACTOR MAN



MONKEYUSER.COM

CSc 110 Lists

Benjamin Dicken

Announcements

- Exam
 - Next week!
 - Study guide will be available on piazza by the end of the day
 - Review Session Tuesday 5-7pm
 - Cumulative
 - For the group exam
 - let me know of any group issues by Friday
 - You can strategize with your teammates in advance
- 1D Chess
- Feedback

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 tranquillity**

. . .

+-----+

| 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:  
        get_card(words, definitions, i)  
        i += 1  
  
    while True:  
        quiz(words, definitions)
```

Implement get_card

```
def get_card(words, definitions, card_num):  
    '''
```

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:  
        quiz(words, definitions)
```

```
main()
```

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!

```
    '''
```

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  
  
    while True:  
        quiz(words, definitions)
```

```
main()
```