

# REFACTOR MAN



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# 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 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()
```