

day21: flashcards program

Due: Friday 10/6/23

Open the repl file attached to this assignment. Fork it. Here is the code itself for your reference here:

```
#day21 Flashcards program
questions = []
questions.append(["yes", "da"])
questions.append(["no", "nyet"])

for x in questions:
    print("Translate to Russian:", x[0], end=" ")
    a=input()
    if a==x[1]:
        print("Correct!")
    else:
        print("Wrong.")
```

This is the beginnings of a flashcard program. Right now it's not much of a flashcards program, as it only has two flashcards. It quizzes you to see if you know the Russian word for "yes" (it's "da") and the Russian word for no (it's "nyet"). To add other terms you add additional lines like this:

```
questions.append(["donut", "ponchik"])
```

If you have twenty terms in your flashcards program, you'd have 20 of these append lines total. Then the for loop goes through each item and uses the item to do a flashcard. Each append call actually appends a **two-item list** to the bigger list called questions. The English word is item 0 of the list and the Russian word is item 1 of the list. Look at the program below to see where we use x[0] (English) and x[1] (Russian). The line that prints x[0] is the one that asks the question, and the line that checks if a == x[1] is the line that checks if the user got the answer right.

```
questions = []
questions.append(["yes", "da"])
questions.append(["no", "nyet"])

for x in questions:
    print("Translate to Russian:", x[0], end=" ")
    a=input()
    if a==x[1]:
        print("Correct!")
    else:
        print("Wrong.")
```

Assignment on the next page.

Your task:

- Modify this program to be a flashcard program that would be helpful to you in your schoolwork. For example, if you study Spanish, make it a vocabulary flashcard. If you are taking Biology or Chemistry or another science class, are there terms you need to memorize? If you are trying to memorize your trig functions or convert from radians to degrees, make it a unit circle quiz. If you cannot apply this to your schoolwork, propose to me something that you want to do instead and if I approve it, you may do it.
- Add code to the top of the program that prints an explanation to the user what the flashcards are about, and how your program will work.
- Write at least 20 questions. Each question that you add will be an append call to the questions list as I showed you above for "donut". Replace the two Russian append lines with your own as part of this process.
- Change the prompts so they fit with whatever your program is (i.e. not Russian/English).
- Keep track of how many correct answers the user gives through the whole deck, then give the results at the end, for example "You answered 17 out of 20 correctly."
- When a user gets one wrong, tell them the correct answer, for example, have the prompt say "Wrong. The correct answer is nyet." When a user gets something correct, say so also.
- Be accurate. Spell your words correctly and have the answers be correct and accurate.
- Include complete output of you working your way through all 20 of your questions in triple quotes at the end. You must get at least one of your questions correct in this trial run.

If you'd like **extra credit**, consider the following possible mods:

1) Make the program keep track of any questions the user gets wrong, and re-quiz them later on these before quitting (you could do this with another list);

or

2) Give the questions in a randomized order, without repeating any but still working through all 20 questions.

or

3) Do you have another idea for something cool to do to this program? If you have a great idea, let me know. Thanks.

If you want me to consider giving you extra credit, turn in the regular program, then fork it, and rename it with "extra credit" in its title, then email me that link directly (whays@wscuhsd.org). Thanks!