

CAIS 117: Intro to Programming with Python

Fall 2023

Homework 02: Mad Libs

Homework is DUE before class on the day indicated on the course schedule.

This is a pair assignment. *You should complete it and submit it with a partner.*

Learning Objectives:

- Get input from and return output to a user
- Perform basic mathematical operations

Part 1 – Coding

In this assignment, you will write a short python program that plays Mad Libs (https://en.wikipedia.org/wiki/Mad_Libs) with the user.

The Mad Lib you will program is:

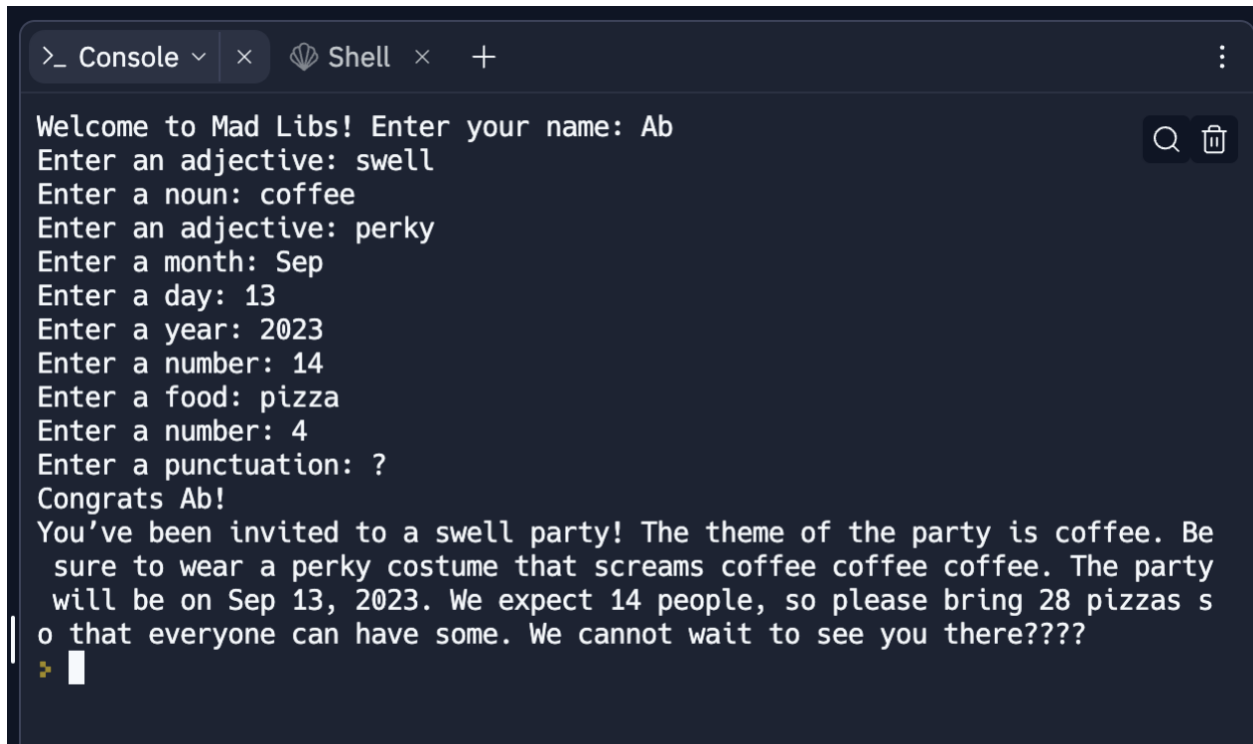
Congrats [NAME]!

You've been invited to a [ADJECTIVE] party! The theme of the party is [NOUN]. Be sure to wear a [ADJECTIVE] costume that screams [X]. The party will be on [MONTH] [DAY], [YEAR]. We expect [NUMBER] people, so please bring [Y] [FOOD]s so that everyone can have some. We cannot wait to see you there [Z]

The user interface of your program should ask the user to input anything between brackets and highlighted in yellow in above. For the things between brackets and highlighted in blue above your program should do the following:

- For X, repeat the first NOUN input 3 times with a space between each
- For Y, multiply the NUMBER input by 2
- For Z, ask the user for punctuation and a number, then that punctuation that many times

For example:



```
>_ Console x Shell x +
Welcome to Mad Libs! Enter your name: Ab
Enter an adjective: swell
Enter a noun: coffee
Enter an adjective: perky
Enter a month: Sep
Enter a day: 13
Enter a year: 2023
Enter a number: 14
Enter a food: pizza
Enter a number: 4
Enter a punctuation: ?
Congrats Ab!
You've been invited to a swell party! The theme of the party is coffee. Be
sure to wear a perky costume that screams coffee coffee coffee. The party
will be on Sep 13, 2023. We expect 14 people, so please bring 28 pizzas s
o that everyone can have some. We cannot wait to see you there????
❏
```

Your submission will be auto graded for correctness and graded by hand for appropriate commenting, structure, etc. (see rubric below). For the auto grader, it's important that your input goes in the prescribed order, and your output is formatted exactly like the example above.

Reflection

In a word document please answer the following questions:

- What part of this assignment was trickiest for you and your partner?
- How did you tackle that tricky part?
- What did each partner contribute to the final product?

Submission

Submit your assignment on repl.it. In addition, save your reflection as a PDF and submit it on PLATO.

Rubric

Function		
	Passes auto grader tests	0 - 10
Commenting		
	Appropriate header with names, date, program description	0 - 2
	Code is well documented, but not over documented	0 - 2
Structure		
	Problem is broken into reasonable chunks	0 - 2
	Variable names are descriptive	0 - 2
	Functions are used appropriately	0 - 2
Reflection		
	All questions answered thoughtfully	0 - 5