

Project 2: Odd Substitutions

COSC 1423 | Fall 2023

Instructor: Megan Avery

Topics: printing, variables, and user input

Goal: Create a game of “Odd Substitutions” with your favorite nursery rhyme.

Turn In Instructions:

A zip file called project02_firstname_lastname.zip containing the following files:

Objective Definition:

A file named project02_planning_firstname_lastname.pdf. Include any pictures of paper you might have used in your planning process in the document.

Implementation:

A file named project02_firstname_lastname.py. Your name will be at the top of the file in a comment. Your followup questions will be answered in a multiline comment at the end of the file.

Test Cases:

A PDF called project02_test_cases.pdf listing the test cases you would use when testing and why you chose them.

Objective Definition (15 pts): See Planning Guide

Style (10 pts): See Style Guide

Implementation (55 pts):

You will be implementing your own version of “Odd substitutions”. First, print a greeting to the user. Then, pick your favorite nursery rhyme to use for the game. Pick at least 6 parts of speech (noun, verb, etc) from the rhyme that will be replaced with user input. Take in those parts of speech from the user and then print the nursery rhyme with the words that the user entered in the appropriate places. See sample run for an example. You are **not** allowed to use the sample nursery rhyme for your project.

Test Cases (10 pts): See Project FAQ

Followup Questions (10 pts):

1. How long did this program take you to write?
2. Did you complete the extension? If not, why not?
3. What was the most challenging part of this assignment? Explain.
4. What did you learn from the process of doing this assignment?
5. Explain your usage of AI in this project. What type of queries did you do during development?

Extension (+5 pts):

Add ASCII art to the top of your output that corresponds to your chosen nursery rhyme. ASCII art is a text based picture formed of keyboard characters instead of lines.

Spider Example:

```
  / _ \
\_ \(_)/ _/
 _//o\ \_
  /   \
```

**** Note:** *The underlined words are indicative of the substitutions that were made, the underlines won't show up in your output. Italicized, thin words are user input.* ******

Sample Run 1 - The Itsy Bitsy Spider:

Another exciting game of Odd Substitutions!

Adjective: *teeny tiny*

Animal: *mouse*

Thing: *clock*

Precipitation: *snow*

Verb (past tense): *blocked*

Verb (past tense): *melted*

The teeny tiny mouse went up the clock

Down came the snow and

blocked the mouse out

Out came the sun and

melted all the snow

The teeny tiny mouse

went up the clock again