Python Randy's Rectangle Calculator

Time required: 60 minutes

- Comment each line of code as shown in the tutorials and other code examples.
- Follow all directions carefully and accurately.
- Think of the directions as minimum requirements.

Pseudocode

- 1. Write pseudocode for the exercise
- 2. Submit with the assignment

Minimum Requirements

Ask the user to enter the length and width of a rectangle. Calculate and display the rectangle's area and perimeter.

- 1. Create a Python program named rectangle_calculator.py
- 2. Create a program title.
- 3. Area of a rectangle: **Area = length * width**
- 4. Perimeter of a rectangle: **Perimeter = 2 (length + width)**
- 5. Ask the user for the length and the width of a rectangle, cast to float.
- 6. Calculate the area.
- 7. Calculate the perimeter.
- 8. Display the area.
- 9. Display the perimeter.

TODO Outline of Program

You can use the following TODO outline to get started with your program.

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```
Name: rectangle_calculator.py
Author:
Created:
Purpose: Python program to calculate
the area and perimeter of a rectangle
"""

# TODO: Print program title

# TODO: Get user input for length and width as float

# TODO: Calculate area of rectangle Math formula: a = lw

# TODO: Calculate perimeter of rectangle Math formula: p = 2(1+w)

# TODO: Echo user input

# TODO: Display results
# Use f-strings to format float to 2 decimal places
# use comma , as a 1,000's separator
```

F-strings formatting example:

```
print(f" Perimeter: {perimeter:,.2f}")
```

```
: indicates formatting codes are coming up
, comma formats 1,000 separators
.2f formats a float to 2 decimal places
```

Example run:

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Assignment Submission

- 1. Attach the pseudocode.
- 2. Attach the program files.
- 3. Attach screenshots showing the successful operation of the program.
- 4. Submit in Blackboard.

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