

LAB NUMBER: 2

Task: Calculate the perimeter and area of various classrooms at Grand Circus based on user input.

What will the application do?

- Prompt the user to enter values of length and width of the classroom.
- Display the area and perimeter of that classroom.
- Ask if the user wants to continue (keep measuring rooms!).

Build Specifications

1. Assume that the rooms are perfect rectangles.
2. Assume that the user will enter valid numeric data for length and width.
3. Accept decimal entries (12.5, for instance).

Hints:

- Don't mess up the formulas for area or perimeter.
- The Snug is 24' 6" x 20' 0". The Penthouse is 42' 6" x 16' 6".
- ZyBook Chapters 1 and 2.

Extra Challenges:

- The application should continue only if the user agrees to.
- Calculate the volume of the rooms.

Console Preview:

Welcome to Grand Circus' Room Detail Generator!

Enter Length: {user input here, for example: 24.5}

Enter Width: {user input here, for example: 20}

Area: {output here, for example: 490}

Perimeter: {output here, for example: 89}

Continue? (y/n): {user input here, for example: Y}

Enter Length: {3}

Enter Width: {4}

Area: {12}

Perimeter: {14}

...

