

Lab 10

Gallons of Paint

Objective:

To write a program with:

- functions to get input from the user
- a function or functions to do necessary calculations
- a function to output results

Assignment:

You are to rewrite your code from lab 4 so that it will more efficiently use functions for each portion of the code. The program must contain at least 3 functions (input, process, output). One of the functions should return the gallons of paint needed for a given room. That function should accept the following parameters:

- length, width, height (room dimensions in feet)
- windows, doors (number of windows and doors in the room)

The program will also now calculate a running total of the gallons needed to paint several rooms of a house. The program should display the paint needed for each room as well as the total. Since paint is normally sold in gallon containers, your program should also show how many gallon containers should be purchased for the entire job.

Sample Run:

```
Enter dimensions (length width height):  20 30 8
Enter number of windows and doors:  2 2
That room will take 1.82 gallons of paint.
```

```
Another room (y/n)?  y
```

```
Enter dimensions (length width height):  18 36 8
Enter number of windows and doors:  3 0
That room will take 2.05 gallons of paint.
```

```
Another room (y/n)?  n
```

```
All the rooms combined will take 3.87 gallons of paint.
```

```
4 gallon-containers of paint will be required.
```