# Lab 4

## Gallons of Paint

***Objective:***
To write a program with different kinds of variables and different calculations

***Assignment:***
To earn some money for college, you have started painting house interiors. To determine how many gallons of paint are needed for a job, you estimate that one gallon of paint covers 400 square feet of surface. Since windows and doors require different paint than the walls, you deduct 15 square feet for each window and 21 square feet for each door in the room. Knowing that ceilings are sometimes painted differently than walls, you decide to calculate only the number of gallons of paint needed for the walls (a different painter takes care of ceilings).

Your program needs the following information from the user:

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

The program should calculate and display the paint needed for the room. Think about the kinds of variables you need (whole numbers? numbers with decimals?). Since paint is normally sold in gallon containers, your program should also show how many gallon containers should be purchased.

You may find the *Variables Input and Output* reference document useful.

***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.
2 gallon-containers of paint will be required.
```