**PS10P2 – IPO**

Prompt the user to repeatedly to do the program( input (Yes or No)). If they response Yes go into the loop and prompt the user for length, width and height of a room. Write a function to compute the square footage of the room. The function should receive the length, width and height of the room and return square footage (2 x length x width (floor and ceiling) + 2 x length x height (2 of the walls) + 2 x width x height (the other 2 walls). A gallon of paint covers 50 square feet. Compute the number of gallons needed to paint the room (square footage of the room / 50). Display the number of gallons needed.

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| **INPUT** | **PROCESSING** | **OUTPUT** |
|  | FunctionSquareFootage(Length, Width, Height)  SquareFootage = (2 \* Length \* Width) + (2 \* Length \* Height) + (2 \* Width \* Height)  Return SquareFootage |  |
| Length  Width  Height |  |  |
|  | Main  Would you like to calculate the quantity of gallons needed to paint a room? (Yes or No)  While Response == “Yes”:  Input Length, Width, Height  SquareFootage = FunctionSquareFootage(Length, Width, Height)  GallonsNeeded = SquareFootage / 50    **Display:** *GallonsNeeded*  Would you like to calculate the amount of paint needed for another room? (Yes or No) | GallonsNeeded |