Task: Write a C program to be used as a converter between Liter and Gallon units.

Use the relation: 1 US Gallon = 3.78541178 Liters

How it works: After start up, the program prompts the user to enter a quantity and a unit symbol. After pressing enter, program displays the quantity converted to other unit upto 3 decimal digits after radix point and terminates.

Examples:

Enter Quantity : 2.5 G
2.5 Gallons = 9.464 Liters

Enter Quantity : 10L
10 Liters = 2.642 Gallons

Time: You have 15 minutes to write the program. You do not need to write #include, system(..) etc.
int main(){
    double x, cv=3.78541178; char un;
    printf("Enter quantity : ");
    scanf("%lf %c", &x, &un);
    if((un=='g')|| (un=='G'))
        printf("%.3lf gallons = %.3lf liters\n", x, x*cv);
    else if((un=='l')|| (un=='L'))
        printf("%.3lf liters = %.3lf gallons\n", x, x/cv);
    else
        printf("invalid unit\n");
    return 0;
}