```c
1    /* program for input in pounds and ounces
2           and output   in kg      and grams
3           1lb = 0.453592 kg
4           1lb = 16 ounces (oz)
5    */
6
7    #include<stdio.h>    /* input and output main fuctions */
8    #include<math.h>     /* math function to use floor function */
9
10   int main ()          /* main function heading */
11   {
12       double lbs,oz,totaloz,totalgm,kg,kgbottom,gm;   /* double for real number */
13       const double lbs_per_kg = 0.453592;    /* conversion factor */
14
15       printf("Enter the values of pounds and ounces respectively\n");      /*
     input values */
16       scanf("%lf %lf",&lbs,&oz);                                           /*
     stores inputs */
17
18       totaloz = lbs*16+oz;                         /* example 6lb 3 oz = 6*16+3 = 99
     oz */
19       totalgm = totaloz*lbs_per_kg*1000/16;  /* 16 oz = .453592 *1000 g and 99
     oz = 2806.6 gm */
20       kg = totalgm/1000.0000;                 /* 2.8066 kg */
21
22       kgbottom = floor(kg);                        /* floor is 2 */
23       gm = (kg-kgbottom)*1000;                     /* .8066*1000 = 806.6 */
24
25       printf("1 pound = 16 ounces\n");        /* this calls the output values */
26       printf("1 pound = 0.453592 kgs\n");
27       printf("1 ounce = 28.3495 grams\n");
28       printf("weight = %.2f pounds and %.2f ounces\n",lbs,oz);
29       printf("weight = %.2f ounces\n",totaloz);
30       printf("weight = %.5f kg\n",kg);
31       printf("weight = %.0f kg and %.2f grams\n",kgbottom,gm);
32
33       return 0;                                    /* final statement of main
     function */
34   }
35
36
```