**Exercise #14**

**Date: 12/25**

1. Please write a program that defines a macro with one argument to compute the area of a circle. The program should compute the area for circles with radiuses ranging from 1 to 10 meters and print the results in the following tabular format.

*radius (m) area (m^2)*

*-----------------------*

*1 3.14*

*2 12.57*

*3 28.27*

*4 50.26*

*5 78.54*

*6 113.09*

*7 153.93*

*8 201.06*

*9 254.46*

*10 314.15*

1. Please write a structured program of calculator.

You should build four functions in first:

add (float num1, float num2);

substrate (float num1, float num2);

multiply (float num1, float num2);

divide(float num1, float num2);

if the input is:

4.8/2

The output is: (use %g to show the answer)

2.4

After building the functions, please separate the program into calculate.h, calculate.c and main.c. You have to put the four functions into calculate.c and calculate.h.