

float_demo.c

This little practice program demonstrates a few concepts and tools.

1. What does an integer look like?
2. What does a float look like?
3. What happens when you use the round function?
4. How do you break lines of code when you want them to print together?
 - C has a limit on how much code can be in each line in the editor...

So type this in - get it to run for yourself and test conditions so you know how it works...

```
#include <cs50.h>
#include <math.h>
#include <stdio.h>

int main(void)
{
    // this takes in an integer only from the user
    // this is also one example of how to print a really long sentence
    printf("Follow the directions - this is for a demo only "
           "and so there are no validation checks: \n");
    printf("Enter an integer number please: ");
    int simple = GetInt();
    printf("Here is your number: %i\n\n", simple);

    // this takes in a decimal number from the user
    printf("Enter a decimal number please: ");
    float decimal = GetFloat();
    printf("Here is your number as a float: %f\n\n", decimal);

    // demo what round does to floating point numbers
    // another example of how to continue on a print command
    printf("Did you notice how there are "
           "several decimal points floating there? \n");
    printf("Now try this again: \n");
    printf("Enter the same decimal number please: ");
    int converted = round(GetFloat());
    printf("This is the rounded number to an integer: %d\n", converted);
}
```