

```
1 // Sample some logs
2 #include <cs50.h>
3 #include <math.h>
4 #include <stdio.h>
5
6 int main(void)
7 {
8     // Prompt the user for a number
9     double number = get_double("Number: ");
10
11     // Prompt the user for a base
12     double base = get_double("Base: ");
13
14     // Perform a log with only base 2 logarithm, aka change of base formula
15     double result = log2(number) / log2(base);
16
17     // Print the result
18     printf("The log base %0.3f of %0.3f is %0.3f\n", base, number, result);
19 }
```