[1.] You try compiling the code below,
```c
#include <stdio.h>
#include <math.h>
int main()
{
    double x, y, z;
    printf("Enter x\n");
    scanf("%lf", &x);
    printf("Enter y\n");
    scanf("%lf", &y);
    z = x + y
    printf("nx+y=\%12.8lf", z);
    printf("nx+y=\%lf\n", z);
    return 0;
}
```
but you get the error
```
temp.c:12:5: error: expected ; before printf
    printf("nx+y=\%12.8lf", z);
```
What is the error in your code? Fix it in the code above.

[2.] You try compiling the code below,
```c
#include <stdio.h>
#include <math.h>
int main(void)
{
    int jmin, jmax, j;
    printf("Enter jmin, jmax ");
    scanf("%i ", &jmin, &jmax);
    for (j = jmin; j < jmax+1; j = j+1)
    {
        printf("\n%i", j);
    }
    printf("\n");
    return 0;
}
```
but you get the error
```
temp2.c:7:10: warning: too many arguments for format [-Wformat-extra-args]
    scanf("%i ", &jmin, &jmax);
```

a) What is the error in your code? Fix it in the code above.
b) After you fix it, what will your program do if you supply the inputs jmin=8 and jmax=19?

Turn Sheet Over For Problem 3!!!!!
You are running a molecular dynamics code for an oscillator. The spring constant $k = 100$ N/m and the mass $m = 0.01$ kg. What time step $dt$ should you use? Why?