Quiz 1

Name: _____

Question 1. Each of the following Python expressions evaluates to some value. For each one, give the resulting value and its type (as one of `int`, `float`, `str`, or `list`).

	Value	**Type**
(a). `5/10`	_____	_____
(b). `5.0/10`	_____	_____
(c). `range(3)`	_____	_____
(d). `"*"*3`	_____	_____
(e). `"hello" + str(42)`	_____	_____
(f). `str(4/3)`	_____	_____
(g). `float("2"*3)`	_____	_____
(h). `float(5/10)`	_____	_____

Question 2. Write a program that asks the user for a string and a number (**n**), then prints out the string **n** times. Here's an example of the running program (user input in **bold**):

string: **pony!**
number: **5**

pony!
pony!
pony!
pony!
pony!

Question 3. Write a program that asks the user for a number, then prints out a simple multiplication table (1 to 12) for that number. Here's an example of the running program (user input in **bold**):

```
number? 7

7 x  1 =   7
7 x  2 =  14
7 x  3 =  21
7 x  4 =  28
7 x  5 =  35
7 x  6 =  42
7 x  7 =  49
7 x  8 =  56
7 x  9 =  63
7 x 10 =  70
7 x 11 =  77
7 x 12 =  84
```

Question 4. Consider the following program with the desired output when the user enters 32:

Program	**Desired**

```
1  def main():
2     # Fahrenheit to Celsius converter
3     startF = raw_input("starting Fahrenheit temp: ")
4     for F in range(startF,startF+100,10):
5        C = (F - 32)*(5/9)
6        print("%3d F = %3d C" % (F,C))
7
8  main()
```

```
starting Fahrenheit temp: 32

 32 F =   0 C
 42 F =   5 C
 52 F =  11 C
 62 F =  16 C
 72 F =  22 C
 82 F =  27 C
 92 F =  33 C
102 F =  38 C
112 F =  44 C
122 F =  50 C
```

When run, the current program does this:

```
  File "f2c.py", line 9
    main()
        ^
SyntaxError: invalid syntax
```

In addition to the syntax error, there are two other problems with this program. Find the syntax error and the two additional problems, and describe how to correct them.