

Name: _____

1. (1 pt) What was the point of showing the Excel chart demonstration in class?
2. (2 pts) Write a **while** loop that prints the numbers 100 to 200. Make sure to print both the numbers 100 and 200.
3. (2 pts) Write a function that prints the name of your favorite song.
4. (1 pt) Write code that calls the function in the prior problem.

5. (3 pts) Write a function that will take in three numbers, and return the largest one.

6. (2 pts) Write code that will call the function in the prior problem and print the result. Make up the numbers that are passed in.

7. (3 pts) What does this code print?

```
def f():  
    print "f start"  
    g()  
    h()  
    print "f end"
```

```
def g():  
    print "g start"  
    h()  
    print "g end"
```

```
def h():  
    print "h"
```

```
f()
```

8. (2 pts) What does this code print?

```
def g(x):  
    print("G1", x)  
    x=x+1  
    print("G2", x)  
    return x  
  
def f(x):  
    print("F1", x)  
    x=g(x)  
    print("F2", x)  
  
x=1  
print("A1", x)  
f(x)  
print("A2", x)
```

9. (1 pt) Explain the mistake in the following code:

```
def sum(a,b):  
    print (a+b)  
  
print (sum(10,11))
```

10. (3 pts) Write a function that will take in an array, and print each element individually:

11. (5 pts) Write a function that will take in an array, and return the average.

12. (3 pts) Take a look at the two blocks of code below. Explain or write out how their output will be different:

```
# Block 1
for i in range(3):
    for j in range(3):
        print ("*",end="")
    print ()
```

```
# Block 2
for i in range(3):
    for j in range(3):
        print ("*",end="")
print ()
```

13. (1 pt) What does this code print?

```
x2=[[3,4],5,[6,7]]  
print (len(x2))
```

14. (4 pts) There are 6 things wrong with this code. Find at least 4:

```
def reverse(text):  
    result=""  
    length=len(text)  
  
    for i in range(text_length)  
        result=result+text(i*-1)  
    return result  
  
text= Programming is the coolest thing ever.  
print (reverse(text))
```

15. (1 pt) Fix the following code, or explain the problem:

```
def main():  
    print "hi"  
    def f():  
        print "there"  
    f()
```

16. What would this code snippet print to the screen?

```
print("A B\nC\D\\")
```

17. What would the following code print?

```
print ("11"+"22")  
print (11+22)
```