

Name: _____

Section: 1 2 3 4

Use this quiz to help make sure you understand the videos/reading. **Answer all questions.** Make additional notes as desired. **Not sure of an answer?** Ask your instructor to explain in class.

1. What gets printed when *main* is called in the program shown to the right?

(Pay close attention to the order in which the statements are executed. Write the output **in a column to the right of the program.**)

```
def main():
    hello()
    goodbye()
    hello_and_goodbye()
    goodbye()

def hello():
    print('Hello!')

def goodbye():
    print('Ciao!')

def hello_and_goodbye():
    print('Here is stuff!')
    goodbye()
    hello()
    hello()
    print('Here is more!')
    hello()
    goodbye()
```

Output

2. What gets printed when *main* is called in the program shown to the right?

(Pay close attention to the order in which the statements are executed. Write the output **in a column to the right of the program.**)

```
def main():
    big()
    bigger()
    biggest()
    big()

def big():
    print('basketball')

def bigger():
    print('truck')
    big()

def biggest():
    print('house')
    bigger()
    big()
```

Output

3. For each of the following boxes:

- If the code is correct, state what gets printed when main runs.
- If the code is wrong, explain why.

```
def main():
    x = foo()
    print(x)

def foo(m):
    return m ** 3
```

Correct? If so, prints _____

Wrong?

If so, explain why:

```
def main():
    x = foo(m)
    print(x)

def foo(m):
    return m ** 3
```

Correct? If so, prints _____

Wrong?

If so, explain why:

```
def main():
    x = foo('help')
    print(x)

def foo(m):
    return m ** 3
```

Correct? If so, prints _____

Wrong?

If so, explain why:

4. The code in the box to the right has syntax errors: it causes big red **X** error message(s). Circle the line(s) that will have red **X** error message(s) beside them and explain why those line(s) will have those **Xs**.

```
def main():
    foo()
    print(n)
    print(m)

def foo():
    n = 3
    m = 1
    return m
```

5. Suppose you want to write a function called **foo** that has two **zg.Point** objects sent to it and does something with them. Write the “header” line of **foo**, that is the line that begins with **def**.

def _____:

6. Suppose you want to write a function called **blah** that takes a **zg.Point** object and a **zg.GraphWin** object (in that order) and does something with them. Write the “header” line of **blah**, that is the line that begins with **def**.

def _____:

7. What gets printed when **main** is called in the program shown to the right?

(Pay close attention to the order in which the statements are executed. Write the output **in a column to the right of the program.**)

```
def main():  
    a = 2  
    b = 3  
  
    m = do_it(a, b)  
    print(m)  
  
    m = do_it(b, a)  
    print(m)  
  
    m = do_it(a, a)  
    print(m)  
  
    m = do_it(b, b)  
    print(m)  
  
    b = do_it(b, a)  
    m = do_it(b, a)  
    print(m)  
  
def do_it(x, y):  
    return x ** y
```

Output

8. What gets printed when *main* is called in the program shown to the right?

(Pay close attention to the order in which the statements are executed. Write the output *in a column to the right of the program.*)

```
def main():  
    a = 2  
    b = 3  
  
    foo1()  
    print(a, b)  
  
    foo2(a, b)  
    print(a, b)  
  
    foo3(a, b)  
    print(a, b)  
  
def foo1():  
    a = 88  
    b = 99  
  
def foo2(a, b):  
    a = 400  
    b = 500  
  
def foo3(x, y):  
    x = 44  
    y = 55
```

Output