Test 3 – Practice Problems for the Paper-and-Pencil portion

1. Consider the code snippet below. The class defined in the box at the bottom is in the

Output:

module (file) whose name is stuff1.py. This code is a contrived example with poor style, but it will run without errors. What does it print when *main* runs?

Write your answer in the box to the right.

```
import stuff1
def main():
   first = stuff1.Foo(3)
    second = stuff1.Foo(7)
   third = stuff1.Foo(3)
    fourth = stuff1.Foo(7)
    print(first.x, first.y, second.x, second.y)
    print(third.x, third.y, fourth.x, fourth.y)
    first.blah1(88)
    first.blah1(77)
    second.blah1(66)
    second.blah1(55)
    print(first.x, first.y, second.x, second.y)
    print(third.x, third.y, fourth.x, fourth.y)
    first.blah2(1)
    first.blah2(2)
    second.blah2(3)
    second.blah2(4)
    print(first.x, first.y, second.x, second.y)
    print(third.x, third.y, fourth.x, fourth.y)
```

```
class Foo(object):
    def __init__(self, x):
        self.x = x * 100
        self.y = 5
    def blah1(self, a):
        self.x = self.x + 1
        self.y = a
    def blah2(self, y):
        y = y + 10
```

2. Consider the code snippet below. The classes defined in the box to the right are in the module (file) whose name is stuff2.py. This code is a contrived example with poor style, but it will run without errors. What does it print when *main* runs?

Write your answer in the boxes at the bottom.

```
import stuff2
    def main():
        t1 = stuff2.0ne(2)
        t2 = stuff2. Two(3)
        t3 = stuff2.Three()
        t4 = stuff2.Four()
        t5 = stuff2.Five(800, 900)
         print(t1.a, t1.b)
         print(t2.a, t2.b)
        print(t3.a, t3.b)
         print(t4.a, t4.b)
         print(t5.a, t5.b)
        t1.blah()
        t2.blah()
        t3.blah()
        t4.blah()
        t5.blah()
         print(t1.a, t1.b)
         print(t2.a, t2.b)
         print(t3.a, t3.b)
         print(t4.a, t4.b)
         print(t5.a, t5.b)
                          Output from 2<sup>nd</sup> set of
Output from 1<sup>st</sup> set of
print statements:
                          print statements:
```

```
class One(object):
    def __init__(self, a):
        self.a = a
        self.b = 8
   def blah(self):
        self.a = self.a + 1
        self.b = 17
class Two(One):
   def __init__(self, s):
        super(). init (s * 10)
class Three(One):
   def __init__(self):
        self.a = 99
        super(). init (6)
   def blah(self):
        self.a = self.a * 100
        self.b = self.b * 100
class Four(One):
    def __init__(self):
        self.a = 40
        self.b = 50
   def blah(self):
        super().blah()
        self.a = self.a + 3
        self.b = self.b + 3
class Five(Two):
   def __init__(self, r, s):
        self.a = r
        self.b = s
```

Page 3 of 3

