Quiz: OOP (2)

Total Score: $/2^2$

Printed Name:

Quiz rules:

- 1. You MAY use any printed or handwritten notes.
- 2. You MAY NOT use a computer or any other electronic device.

Problem 1. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
$ cd; rm -rf quiz; mkdir quiz; cd quiz
2 $ cat > foo.py <<EOF
   class Foo:
4
       def __init__(self, message=None):
5
           if message:
6
               Foo.message = message
7
  foo = Foo('hello world')
  foo.child = Foo()
9 foo.child.child = foo
10 try:
       print(' foo.child.child.child.message=', foo.child.child.child.message)
11
12 except AttributeError:
13
       print('AttributeError')
14 EOF
15 $ python3 foo.py
```

Problem 2. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
1 $ cd; rm -rf quiz; mkdir quiz; cd quiz
 2 \text{ $ cat > foo.py } << \text{EOF}
 3 class Foo:
       def __init__(self, message=''):
 4
 5
            self.message = message
 6
       def foo(self):
 7
            return self.message
8 class Bar(Foo):
9
       def __init__(self, message=''):
            super().__init__(message)
10
11
       def bar(self):
12
            return self.message
13 a = Foo('hello world')
14 b = Bar('hola mundo')
15 try:
16
       print('a.bar()=', a.bar())
17 except AttributeError:
18
       print('AttributeError')
19 EOF
20 $ python3 foo.py
```

Problem 3. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
1 $ cd; rm -rf quiz; mkdir quiz; cd quiz
2 $ cat > foo.py <<EOF
3 class Foo:
       message = 'salve munde'
4
5
       def __init__(self, message=None):
6
           if message:
7
               Foo.message = message
8
       @staticmethod
9
       def foo():
10
           return Foo.message
11 class Bar(Foo):
       def __init__(self, message=None):
12
13
           super().__init__(message)
14
       @staticmethod
       def bar():
15
16
           return Bar.message
17 a = Foo('hello world')
18 b = Bar()
19 try:
20
       print('b.bar()=', b.bar())
21 except AttributeError:
       print('AttributeError')
23 EOF
24 $ python3 foo.py
```

Problem 4. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
1 $ cd; rm -rf quiz; mkdir quiz; cd quiz
 2 \text{ $ cat > foo.py } << \text{EOF}
 3 class Foo(list):
        def \_init\_(self, xs=[]):
 4
 5
             super().__init__(xs)
 6
             xs.append(len(xs))
 7 \text{ xs} = \text{Foo()}
 8 xs.append(Foo())
9 \text{ xs.append(Foo())}
10 \text{ ys} = \text{Foo()}
11 ys.append(Foo())
12 \text{ ys.append(Foo())}
13 try:
14
        print('len(ys[2])=', len(ys[2]))
15 except AttributeError:
16
        print('AttributeError')
17 EOF
18 $ python3 foo.py
```