

Quiz: OOP (Practice Problems)

1 Classes and Attributes

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.

```
1 $ cd; rm -rf quiz; mkdir quiz; cd quiz
2 $ cat > foo.py <<EOF
3 class Foo:
4     pass
5 a = Foo()
6 a.message = 'hello world'
7 b = Foo()
8 b.message = 'hola mundo'
9 try:
10     print('a.message=', a.message)
11 except AttributeError:
12     print('AttributeError')
13 EOF
14 $ 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 $ cat > foo.py <<EOF
3 class Foo:
4     pass
5 a = Foo()
6 b = Foo()
7 b.message = 'hello world'
8 try:
9     print('a.message=', a.message)
10 except AttributeError:
11     print('AttributeError')
12 EOF
13 $ 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:
4     message = 'salve munde'
5 a = Foo()
6 b = Foo()
7 b.message = 'hola mundo'
8 try:
9     print('a.message=', a.message)
10 except AttributeError:
11     print('AttributeError')
12 EOF
13 $ 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 $ cat > foo.py <<EOF
3 class Foo:
4     pass
5 a = Foo()
6 b = Foo()
7 b.message = 'hola mundo'
8 Foo.message = 'salve munde'
9 try:
10     print('a.message=', a.message)
11 except AttributeError:
12     print('AttributeError')
13 EOF
14 $ python3 foo.py
```

Problem 5. 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:
4     pass
5 a = Foo()
6 a.message = 'hello world'
7 b = Foo()
8 b.message = 'hola mundo'
9 Foo.message = 'salve munde'
10 try:
11     print('a.message=', a.message)
12 except AttributeError:
13     print('AttributeError')
14 EOF
15 $ python3 foo.py
```

2 Constructors

Problem 6. 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:
4     def __init__(self, message):
5         self.message = message
6 a = Foo('hello world')
7 b = Foo('hola mundo')
8 try:
9     print('a.message=', a.message)
10 except AttributeError:
11     print('AttributeError')
12 EOF
13 $ python3 foo.py
```

Problem 7. 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:
4     def __init__(self, message):
5         message = message
6 a = Foo('hello world')
7 b = Foo('hola mundo')
8 try:
9     print('a.message=', a.message)
10 except AttributeError:
11     print('AttributeError')
12 EOF
13 $ python3 foo.py
```

Problem 8. 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:
4     message = 'salve munde'
5     def __init__(self, message):
6         message = message
7 a = Foo('hello world')
8 b = Foo('hola mundo')
9 try:
10     print('a.message=', a.message)
11 except AttributeError:
12     print('AttributeError')
13 EOF
14 $ python3 foo.py
```

Problem 9. 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:
4     def __init__(self, message):
5         Foo.message = message
6 a = Foo('hello world')
7 b = Foo('hola mundo')
8 try:
9     print('a.message=', a.message)
10 except AttributeError:
11     print('AttributeError')
12 EOF
13 $ python3 foo.py
```

Problem 10. 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:
4     def __init__(self, message):
5         Foo.message = message
6 a = Foo('hello world')
7 b = Foo('hola mundo')
8 Foo.message = 'salve mundo'
9 try:
10     print('a.message=', a.message)
11 except AttributeError:
12     print('AttributeError')
13 EOF
14 $ python3 foo.py
```

Problem 11. 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:
4     def __init__(self, message):
5         Foo.message = message
6 a = Foo('hello world')
7 b = Foo('hola mundo')
8 b.message = 'salve mundo'
9 try:
10     print('a.message=', a.message)
11 except AttributeError:
12     print('AttributeError')
13 EOF
14 $ python3 foo.py
```

2.1 Default Parameters

Problem 12. 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:
4     def __init__(self, message=None):
5         self.message = message
6 a = Foo()
7 b = Foo('hola mundo')
8 try:
9     print('a.message=', a.message)
10 except AttributeError:
11     print('AttributeError')
12 EOF
13 $ python3 foo.py
```

Problem 13. 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:
4     def __init__(self, message=None):
5         if message:
6             self.message = message
7 a = Foo()
8 b = Foo('hola mundo')
9 try:
10     print('a.message=', a.message)
11 except AttributeError:
12     print('AttributeError')
13 EOF
14 $ python3 foo.py
```