

05 Handwritten

Class Constructors

```
class Human:
    age = 0
    def __init__(self, age):
        self.age = age
    def birthday(self):
        self.age += 1
```

1. Using the above class definition, what will this code print?

```
me = Human(42)
print(me.age)
me.birthday()
print(me.age)
```

2. Using the above class definition, what will this code print?

```
me = Human(42)
print(me.age)
you = Human(2)
you.birthday()
print(me.age)
print(you.age)
```

3. Modify the human constructor (the init function) to include a variable called "name".

```
class Human:
    age = 0

    def __init__(
        self, age
    ):
        self.age = age

    def birthday(self):
        self.age += 1
```

05 Handwritten Answers

Class Constructors

```
class Human:
    age = 0
    def __init__(self, age):
        self.age = age
    def birthday(self):
        self.age += 1
```

4. Using the above class definition, what will this code print?

```
me = Human(42)
print(me.age)           42
me.birthday()
print(me.age)           43
```

5. Using the above class definition, what will this code print?

```
me = Human(42)
print(me.age)           42
you = Human(2)
you.birthday()
print(me.age)           42
print(you.age)           3
```

6. Modify the human constructor (the init function) to include a variable called "name".

```
class Human:
    age = 0
    name = None
    def __init__(self, age, name):
        self.age = age
        self.name = name
    def birthday(self):
        self.age += 1
```