

Work with your neighbor. (This will be graded for participation only.)

1. Given the class definition below:

```
class Student:
    def __init__(self, name, id):
        self._name = name
        self._id = id

    def get_name(self):
        return self._name
```

- a) Write a method `get_id()` that returns a `Student` object's id.

ANS:

```
def get_id(self):
    return self._id
```

- b) Create a `Student` object with name 'Harry' and id 342.

ANS:

```
s = Student('Harry', 342)
```

2. Given the class definition below:

```
class Counter:
    def __init__(self, name):
        self._name = name
        self._count = 0

    def click(self):
        self._count += 1

    def count(self):
        return self._count
```

- a) Write a method `reset()` that will set the count to zero.

ANS:

```
def reset(self):  
    self._count = 0
```

- b) Write a `reset_count()` method that returns the number of times the counter has been reset. *Hint: you may need to add another attribute to the class definition.*

ANS:

```
class Counter:  
    def __init__(self, name):  
        self._name = name  
        self._count = 0  
        self._num_resets = 0 #keep track of the resets  
  
    def reset(self):  
        self._count = 0  
        self._num_resets += 1 # increment at each reset  
  
    def reset_count(self):  
        return self._num_resets
```

Note: Part c) has been moved to ICA-8.

- c) Write a `__str__()` method for Counter.