Untitled

November 15, 2015

1 Exercise 12.7:

Modify the example above so that the city name is also a "private" variable. Add setter and getter methods to access the name variable.

Answer appears after one blank page (so you don't peek).

Are you sure you're ready to peek?

2 Possible Solution:

```
In [4]: class City:
    def _{-init}_{-(self, name='n/a', lat = 0, lon = 0)}:
      self.setName(name)
      self.setLonLat(lon,lat)
    def setName(self, name):
      self._name = str(name)
    def getName(self):
      return self._name
    def setLonLat(self,lon,lat):
      # Note the underscores here:
      if -90 <= lat <= 90 : self._lat = float(lat)</pre>
      if -180 <= lon <= 180 : self._lon = float(lon)</pre>
    def getLonLat(self):
      return (self._lon,self._lat)
#create a city with a valid location
m = City(name='Madison',lat=43,lon=-89)
#this leaves _lon and _lat unchanged:
m.setLonLat(999,999)
print 'The lon and lat of',m.getName(),'are',m.getLonLat()
```

```
The lon and lat of Madison are (-89.0, 43.0)
```