Computer Science 1001 Lab Problem #6 Due Nov 6th (11:59pm NL time)

- Your solution to this lab problem should be uploaded to the **Lab Problem 6** dropbox on the course Brightspace shell.
- Name your files parks.py and parks_test.py.
- The dropbox for this lab problem will close at 11:59pm NL time on November 6th. Late submissions will not be accepted.
- (a) Parks Canada wishes to keep a list of all the Provincial parks in Canada along with information about each park that may be useful for tourists. In a file called parks.py, write a Python class definition, called Park, with the following private attributes:
 - name of the park
 - location (the province where the park is located)
 - area covered (in km²)
 - year established
 - a per-day entry fee

Your class should include a class variable noOfParks that keeps track of the total number of Parks, as well as the following methods:

- an initializer method that includes parameters to initialize all instance variables
- a mutator method for the area covered
- accessor methods for all attributes
- a getEntryFee method that, given a number of days, computes the entry fee for the park based on the per-day entry fee
- a special method __str__ to return a string showing all attributes of the Park object, appropriately labelled.
- (b) In a file called parks_test.py, test your class definitions created above as follows:
 - create 3 Park objects;
 - print the Park objects;
 - print the cost of visiting each Park above for some number of days;
 - change the area of one of the Parks;
 - print only the park name and the updated area of the Park for which you changed the area, with appropriate labels;
 - using your class variable, print the number of Park objects created.

Sample output:

Park name: Big Park

Location: NL

Area covered (km²): 200 Year established: 1950 Entry fee per day: \$5

Park name: Small Park

Location: ON

Area covered (km^2): 150 Year established: 1980 Entry fee per day: \$6

Park name: Medium Park

Location: BC

Area covered (km^2): 165 Year established: 1992 Entry fee per day: \$10

Cost for 2 days in Big Park is \$ 10.00

Cost for 4 days in Small Park is \$ 24.00

Cost for 7 days in Medium Park is \$ 70.00

Park name: Big Park Updated park area: 400

The total number of Parks is 3