Week 3 – In Class Participation

Setup

- Download dieclass.py with the MSDie class definition.
- Download diecollection.py with the SetOfDie class definition.
- Verify that the first line of the diecollection.py contains the line to import MSDie from dieclass import MSDie

SetOfDie Class

Create the class SetOfDie that will store a list of MSDie objects.

1) The class should have the following attribute

```
dice: list storing MSDie objects
```

Given the number of sides and the number of die, the constructor should initialize dice as a list which contains the given number of MSDie objects where all the dice have the given number of sides

The class should have the following methods:

- 2) __str__(): returns a string that has the string representation of each MSdie object on a new line.
- 3) add () add a die with the same number of sides as the other dice in this collection
- 4) rollsum() roll each die in the collection and return the sum of all the rolled values of the dice (2 pts)
- 5) rollmaxmin(): rolls all the dice and returns the max and min rolled values over all dice (2pts)
- 6) __gt__ (other): returns true if this set of die's max rolled value is bigger than the other set's max rolled value, and false otherwise.
 - a) Update so that this set of dice is greater than other if it has dice with more sides than the other set (2 pts)
- 7) Testing (2 pts)

Do a through testing of the __gt__ method.

- Include expected results
- Call the method using the "magical way" i.e. not explicitly
- Make sure to include a test case for each output and to try boundary cases
- 8) Add comments at the headers of rollsum and rollmaxmin using: (2pts)

```
#purpose:
#input:
#output
#assumption
```