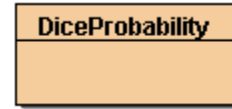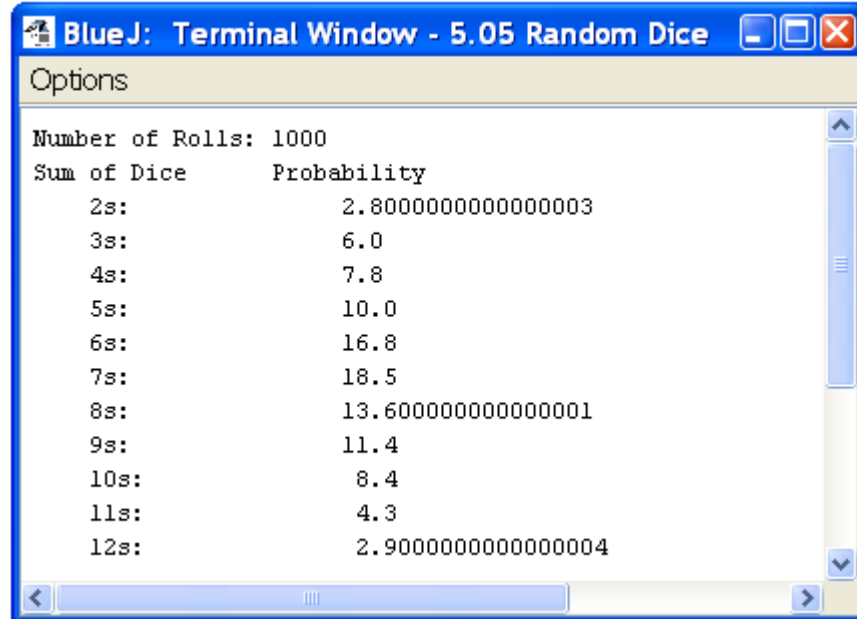# 05.05 Assignment Instructions: Dice Probability

Instructions: Write a program to simulate tossing a pair of 11-sided dice and determine the percentage of times each possible combination of the dice is rolled.

1. Create a new project called 5.05 Random Dice in the Mod05 Assignments folder.
2. Create a class called DiceProbability in the newly created project folder.
3. Ask the user to input how many times the dice will be rolled.
4. Calculate the probability of each combination of dice. (You may want to start with more familiar six-sided dice.)
5. Print the results neatly in two columns (do not worry about excessive decimal places).
6. What is the effect on the percentages when the number of rolls is increased?
7. After the program works, you might want to make it more interesting and ask the user to enter the number of sides on a die (singular for dice).

Expected Output: When your program runs, your output should resemble the following screen shot for a six-sided pair of dice, but of course yours will display the probabilities for the eleven-sided dice. (The decimal places may vary.)

```
BlueJ: Terminal Window - 5.05 Random Dice
Options

Number of Rolls: 1000
Sum of Dice       Probability
    2s:              2.8000000000000003
    3s:              6.0
    4s:              7.8
    5s:              10.0
    6s:              16.8
    7s:              18.5
    8s:              13.600000000000001
    9s:              11.4
   10s:               8.4
   11s:               4.3
   12s:              2.9000000000000004
```