TI-84 Plus Program for Exercise 1.4

1. Press **STAT** and select the default **Edit** by pressing **ENTER**

2. Press up arrow (**^**).
   You should see **L1** = on the bottom of the screen. (If you see **NAME=**, then you should key in **L1** (**L1** is 2nd– **1**, right above the number **1** button.).

3. Press **MATH** and select **PRB** and **randBin(**
   '**L1 = randBin(** ' should appear at the bottom of the screen.

4. Complete the entries to read **L1 = randBin(25 , .60 , 100)/25**. (This randomly finds the number of successes in 25 trials, when the probability of success is pi = .60, and repeats this 100 times. Then each entry is divided by the number of trials 25, to obtain the proportion of successes p.)

5. After you complete the entry in step 4, hit the **ENTER** button and wait a couple of minutes. You will see list **L1** fill up with 100 simulated p's.

6. To get the mean value of these p's, hit **STAT** and select **CALC** and **1-Var Stats** and **ENTER**. You will see descriptive statistics for the list L1, including the mean denoted by x-bar.

7. To compute the average value of the random sampling error for part (b) of the exercise, press **STAT**, select **Edit**, the hit **up arrow** (**^**) followed by **right arrow** (**>**). You will see '**L2 =**' at the bottom of the screen. Enter **L1** − **.6.** (Recall the **L1** button is the second function for the number **1** button). You will see the 100 sampling errors in the list **L2**.

8. To get the average value of the random sampling errors, hit **STAT**, select **CALC** and **1-Var Stats,** type in **L2,** and the hit **ENTER**.

9. Part (c) and (d) can be completed using the same techniques given above.