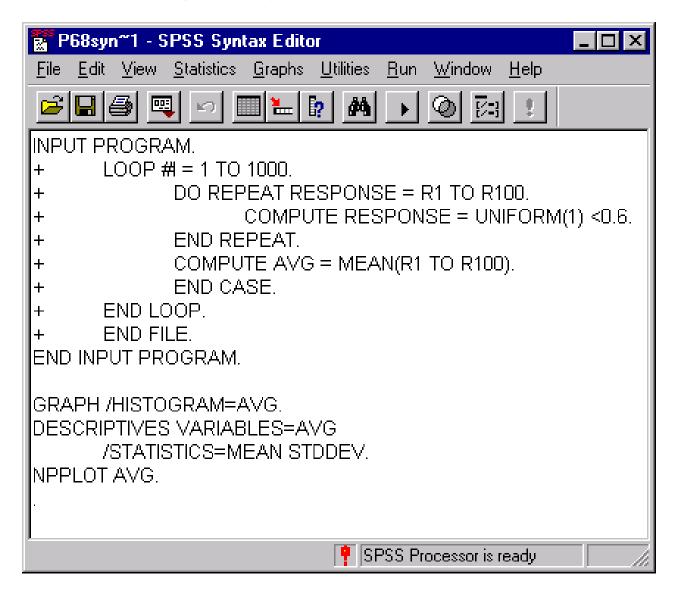
<u>SPSS Chapter 3 Example 3 – Sample Distribution for N=1000, n=100, and p=.6</u>

In the text we have a sampling distribution for a population with p=.6. Let's see if we can simulate this problem using SPSS.

Follow these steps to produce a sampling distribution for 1000 samples of size 100, with p=.6:

- 1. Click **File**, click **New**, and click **Syntax**.
- 2. Enter the following syntax as you see it below.

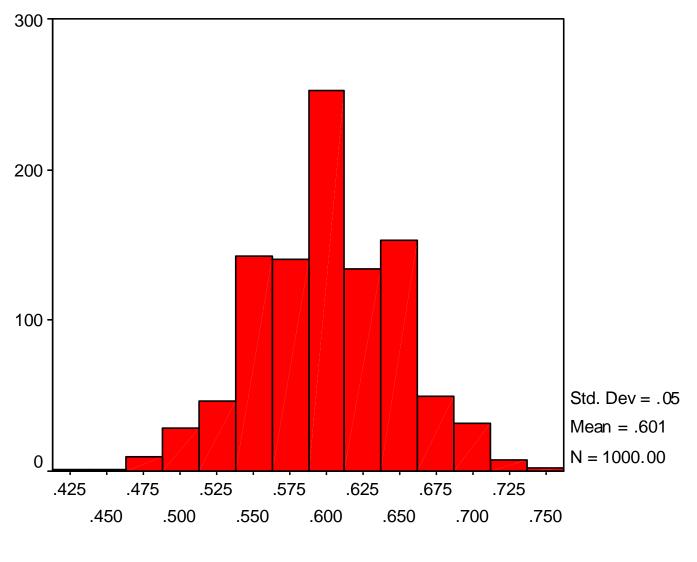


3. Click **Run** and then click **All** (or use the mouse to highlight all the syntax, and then click the ▶ button.)

The SPSS output for this example of a Sampling Distribution is the following:

Note the normal shape to the histogram. The mean is .601, which is close to the population mean of p = .6.

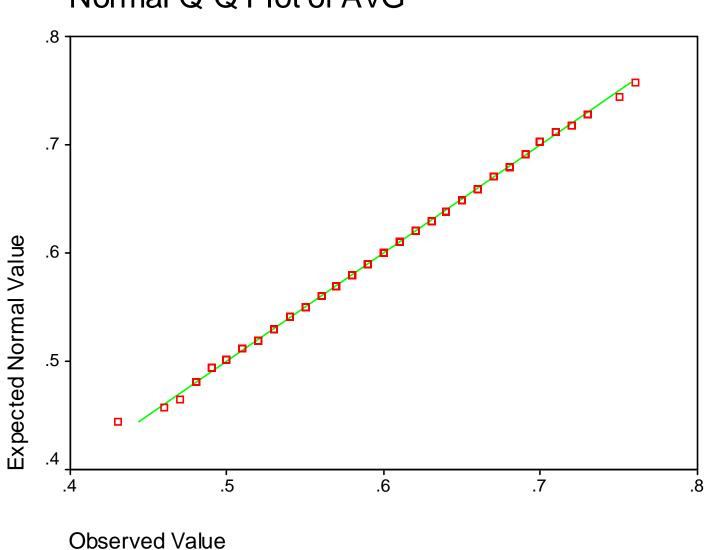
Histogram





Descriptive Statistics

	N	Mean	Std. Deviation
AVG	1000	60	4.87E-02
Valid N (listwise)	1000		



Normal Q-Q Plot of AVG

Note the points lie close to the line, indicating normality. Thus both the histogram and Normal Q-Q plot indicate normality for this data.