Lab Assignment

Review available resources on the web:
http://www.sonoma.edu/users/f/farahman/sonoma/projects/ca/labviewindex.htm

In-class Lab 1: Introduction to LabVIEW
- A- Read http://cnx.org/content/m19837/latest/ .
- B- Follow the steps up to **Profile Tool** Section. In this lab you create a VI to calculate sum and average of several numbers.
- C- When you complete the code show it to the instructor.
- D- If you have extra time, you can start working on the homework (see below).

Homework:
The homework assignment must be done individually. If you copy the program from another student, both of you will receive **zero** for this assignment.

Watch the video (30 min. only):
http://www.ni.com/swf/presentation/us/labview/aap/default.htm

Assignment 1:
Create a simple program that can convert a temperature from the Celsius scale to the Fahrenheit scale: http://www.cs.utexas.edu/~scottm/firstbytes/lab1.htm . Take a snap shot of the Front panel and Diagram. Place the figures in the table below.

Snap shot here!
Figure 1. Front Panel VI for Temperature Converter.
Snap shot here!
Figure 1. Block Diagram for Temperature Converter.

Assignment 2:
Change the code below such that the program generates random numbers between 1-10. Make sure your program works properly. Test it for several values. Take a snap shot of the Front panel and Diagram. Place the figures in the table below.

Snap shot here!
Figure 1. Front Panel VI for Random Number Generator.
Snap shot here!
Figure 1. Block Diagram for Random Number Generator.