Introduction to LabView
• Lab objectives
  ➢ Gain familiarity with LabView graphical programming environment
  ➢ Can interface with numerous hardware devices to acquire and analyze data
  ➢ Will generate simple program to drive function generator and read data with oscilloscope
  ➢ Will use LabView 2011 which is located under All Programs under the Start Menu to generate data during this laboratory
• Principal lab objective to develop virtual instrument (VI)
  ➢ Will pull down numerous programming blocks
  ➢ Will connect blocks and set parameters
  ➢ Will then set up hardware to interface with VI
  ➢ Finally will use VI to
    - Obtain square wave on Channel 1 at 100 KHz and 3 $V_{RMS}$
    - Obtain sine wave on Channel 2 at 10 KHz and 2 $V_{pp}$
Lab II Block Diagram.
• **Hardware setup**
  - Connect function generator to oscilloscope with coaxial cable
  - Turn on function generator and oscilloscope
  - Set function generator to “High Z” output impedance
  - Press output button to function generator
  - Set parameters and I/O addresses
  - Run program
Square Wave Output Generated on Channel 1 at 100 KHz and 3 V_{RMS}
Sine Wave Output Generated on Channel 2 at 10 KHz and 2 V_{pp}.