

## **CS321 - Assignment 5**

### **Problem Statement:**

Issue a Logic Controller Interface (LCI) card and DAC from Hemanta sir. The connectors for the CRO should also be collected and make sure the connections are made properly.

Read the manual for more details and sample programs.

Write programs to generate the following waveforms:

Square/Triangular/Sawtooth/Staircase/Symmetrical Staircase  
Comment on where each of these waveforms are used?

The frequencies for these waveforms should be variable and taken as input from the user.

The input from the LCI card should govern the type of waveform generated. Eg.: If the D5 is made low then a Square wave is generated with the frequency taken from the user, If D6 is made low, a Triangular waveform should be generated, etc. (You can decide this logic as per your choice)

The waveform generated should be displayed on the CRO.

**Bonus:**

Generate a sine wave as per the frequency given as input by the user.

**Deadline:**

**September 3<sup>rd</sup> 2019, 9:00am**

Evaluation will be during the lab. hours on Sept. 3<sup>rd</sup> 2019 (Tuesday).