Engin 103	Topics:
May 5, 2009	Project 3 Assigned Improvements for
	Day 2
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Project 3

Project	Description	Team	May 7 Assigned Improvements
À	Predict the max. temp. for the next day using previous days' temperatures, using polynomial and other models	6	Replace the Exponential Fit by another Fit available in LabVIEW Connect the right value for the For Loop N to generate the polynomial for The prediction
В	Predict the oil price for next week using previous weeks' prices, using polynomial and other models	10	
С	Detect the frequency spectrum of a given signal using Fourier Transforms	4	Add sound for the signal
D	Say the decimal number for a four-digit binary number	5	Add an introductory audio playback to explain what is being done in this VI
Е	Make a 8 keys piano	2	Front Panel; add two buttons, one that would sound all 8 keys from low to high; the other one in reverse order.
F	Solve the quadratic equation with distinction of cases for the discriminant	8	Add a plot to show the quadratic function once coefficients A,B,C are selected. This will allow the user to see what solutions to expect
G	A VI that can calculate the areas of 4 different geometrical shapes	3	Add an option to see the ratio Volume/Area for all shapes
Н	A VI that produces interesting sounds from the combination of 2 or more sine waves with different frequencies	9	
I	A VI that produces a chirp sound, that is a sound whose frequency is changing with time	7	
J	Sound recorder and playback	1	Record and Play back in the same Run

	(without the need to click on the run button again).	
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LOGBOOK: example of a logbook page

- -Use a quadrille notebook; number all pages; date all entries
- -Write your notes for all activities, thoughts, problems and solutions, and learning conclusions related to Engin 103. You should write down progress, outcomes, and conclusions on projects and teamwork; conclusions from class work (including LabVIEW) and homework.
- -In addition you should answer in the logbook all questions listed in these notes in blue, as shown below:
- 49) Describe the modifications required for your team Virtual Instrument.
- 50) Describe one project you saw from the other teams that stood out the most, include a brief summary of the LabVIEW elements they used

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