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# Project 3

| Project | Description | Team | May 6 Assigned Improvements |
|---|---|---|---|
| A | Predict the max. temp. for the next day using previous days' temperatures, using polynomial and other models | 8 | Use only Max temperatures |
| B | Predict the oil price for next week using previous weeks' prices, using polynomial and other models | 6 | |
| C | Detect the frequency spectrum of a given signal using Fourier Transforms | | |
| D | Say the decimal number for a four-digit binary number | 4 | Alert user if a non-binary digit is entered into the Numeric Controls |
| E | Make a 8 keys piano | 3 | Make sound continue as button is hold down |
| F | Solve the quadratic equation with distinction of cases for the discriminant | 1 | Output text regarding type of solution based on the discriminant |
| G | A VI that can calculate the areas of 4 different geometrical shapes | 5 (3D)<br>7 (2D) | Team 5: Highlight the problem selected by the user<br>Team 6: Fix the outputs on relationship between areas of 2D shapes |
| H | A VI that produces interesting sounds from the combination of 2 or more sine waves with different frequencies | 10 | Use Case Structure to show sounds from arithmetic sum and air sum of two sinusoids of different frequencies |
| I | A VI that produces a chirp sound, that is a sound | 2 | |

| | | | | |
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| | | whose frequency is changing with time | | |

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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:**

**51) Describe the modifications required for your team Virtual Instrument. Insert a revised snapshots of the Front Panel and Block Diagram to satisfy the modifications, explain what has been changed and why.**

**52) Describe one project you saw from the other teams that stood out the most, include a brief summary of the LabVIEW elements they used**

**This is the last question for Spring '08**

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