

# DSP Lab Demo 10 Exercise 6

## Implementation Details

**LFO Functions:** Implemented four separate LFO generator functions

- `lfo_sine()` : sinusoidal modulation
- `lfo_triangle()` : triangle wave
- `lfo_square()` : square wave alternating between +1 and -1
- `lfo_exponential()` : exponential rise with periodic reset

## Observations

### Sine Wave LFO

Smooth, natural-sounding vibrato.

### Triangle Wave LFO

Linear pitch sweeps create linear pitch changes rather than sinusoidal.

### Square Wave LFO

Abrupt, produces sudden pitch jumps between two fixed delays.

### Exponential Wave LFO

Asymmetric modulation with non-linear acceleration in pitch change.