

```
1 % produces a sound wave with continuously varying frequency (based on the
2 % linear function from f1 to f2). used for equalizer testing.
3 % the given sampleRate and frequency range for a time
4 % of durr in seconds.
5 % INPUT: f1, f2 frequencys in hz, sampleRate number of samples per second,
6 % durr number of seconds in result
7 function st = snd_range(f1,f2,sampleRate,durr)
8     % the length of the result
9     samples = floor(durr*sampleRate);
10
11     % converting freqnecy to rads
12     f1_rads = f1*2*pi;
13     f2_rads = f2*2*pi;
14
15     % time spans from 0 to durr, increments of
16     % 1/sampleRate
17     t = (durr/samples)*(0:samples);
18
19     delta = f2_rads - f1_rads;
20     f = f1_rads + (delta/samples)*(0:samples);
21     st = sin(f.*t);
22
23
24
25
```