```
A = 0.3; %Amplitude
 1
 2
         f0 = 300; %Frequenz in Hz
 3
         p = 0; %Phase
 4
         d = 3; %Dauer in s
 5
         fs = 22050; %Abtast Frequenz in Hz
 6
         vonx=0.0; %Plot Start x
7
         bisx=0.01; %Plot Ende x
8
         vony=-1; %Plot Start y
9
         bisy=1; %Plot Ende y
10
         %Definition der x Werte
11
         x = 0:1/fs:d; % Array {Startwert, sekunde/abtastfrequenz, dauer)
12
         xm = [0.1, 0.05, 0.05, 0.05, 0.2, 0.2, 0.05, 0.05, 0.05, 0.1];
13
         xm_pi = [-1/3*pi, 1/3*pi, -1/4*pi, 2/3*pi, 0, 0, -2/3*pi, 1/4*pi, -1/3*pi,
         1/3*pi];
14
         m = [-14, -12, -10, -8, -1, 1, 8, 10, 12, 14];
         signal_1=xm(1)*cos(2*pi*f0*m(1)*x+xm_pi(1));
15
         signal_2=xm(2)*cos(2*pi*f0*m(2)*x+xm_pi(2));
16
         signal_3=xm(3)*cos(2*pi*f0*m(3)*x+xm_pi(3));
17
18
         signal_4=xm(4)*cos(2*pi*f0*m(4)*x+xm_pi(4));
19
         signal_5=xm(5)*cos(2*pi*f0*m(5)*x+xm_pi(5));
20
         signal_6=xm(6)*cos(2*pi*f0*m(6)*x+xm_pi(6));
         signal_7=xm(7)*cos(2*pi*f0*m(7)*x+xm_pi(7));
21
22
         signal_8=xm(8)*cos(2*pi*f0*m(8)*x+xm_pi(8));
23
         signal_9=xm(9)*cos(2*pi*f0*m(9)*x+xm_pi(9));
24
         signal_10=xm(10)*cos(2*pi*f0*m(10)*x+xm_pi(10));
25
         y =
         signal_1+signal_2+signal_3+signal_4+signal_5+signal_6+signal_7+signal_8+signal_9+s
         ignal_10;
26
         %Definition y Werte
27
2.8
         %Plot erstellen
29
         subplot(1,1,1);
30
         %Funktion auf Plot Zeichnen
31
         stem(x,y);
32
         %PLot Skalieren (0.1 = 10ms) x -> 0 bis 0.1 // y -> -0.4 bis 0.4
33
         axis([vonx bisx vony bisy]);
34
         %Ton Ausgabe
35
         sound(y,fs);
36
```