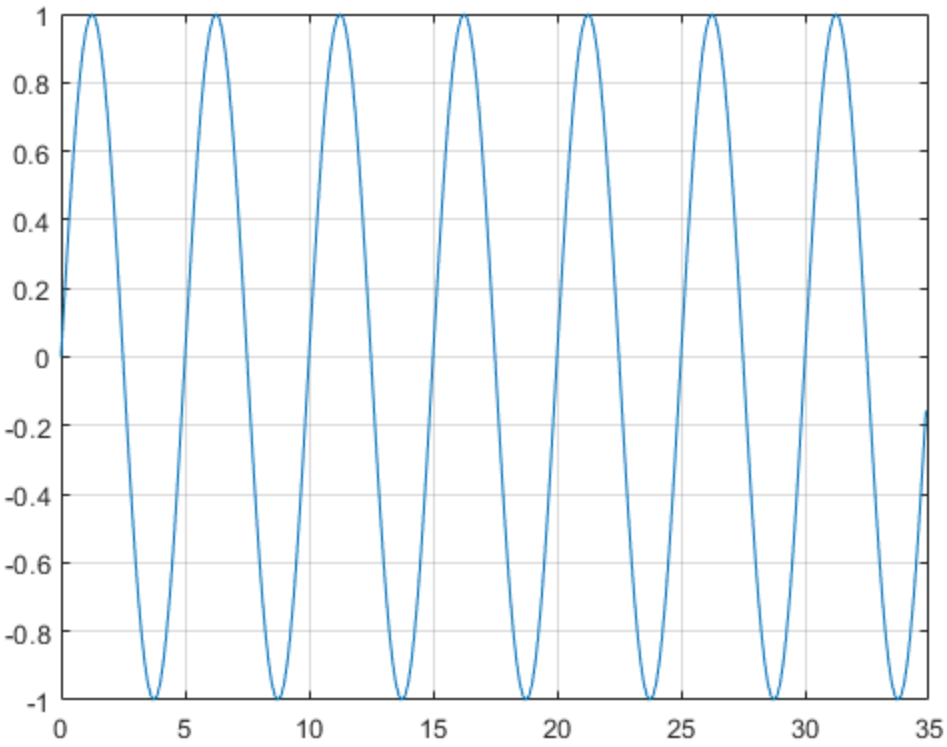
```
close all; clearvars; clc


import class_wave.*
      % Import class from dedicated file

Sgn1 = class_wave(8e3);
      % Create new instance of class_wave
disp(Sgn1)
      % Print instance content
Sgn1 = Sgn1.set_Fc(200);
       % Set new value of Fc attribute through public method [NB: equivalent
 to "Sgn1 = set_Fc(Sgn1,50)"]
Sgn1.Ncyc = 7;
       % Set new value of Ncyc attribute directly (NB: allowed only if the
 attribute is public)
Sgn1 = calc_AxisX(Sgn1);
      % Calculate X-axis
Sgn1 = set_Type(Sgn1,'Sin');
       % Set new value of Type attribute through public method [NB: equivalent
 to "Sgn1 = Sgn1.set_Type('Sin')"]
Sgn1 = calc_AxisY(Sgn1);
      % Calculate y-axis
disp(Sgn1)

figure
plot(get_AxisX(Sgn1,1e3),get_AxisY(Sgn1))
       % Plot waveform based on class instance data (with x-axis in ms, since
 scaled by 1000)
grid on
```

```
  class_wave with properties:

    Ncyc: NaN
      Fc: NaN
      Fs: 8000
    Type: NaN

  class_wave with properties:

    Ncyc: 7
      Fc: 200
      Fs: 8000
    Type: 'Sin'
```



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