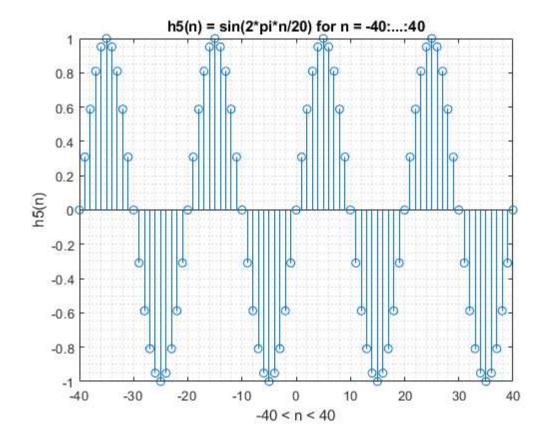
```
%Assignment 1
% Done by Mahmoud Yassin Mahmoud
% ID: 202113650
% Submitted To Dr. Wail A. Mousa
% Bism Allah and I will continue with
%(Q3)The sinusoidal sequence:
% h5(n) = sin(2*pi*n/20) for n = -40:...:40
% Is it a periodic signal? If yes, then what is its period?
clc;
clear;
%.....
% difine n
n = -40:40;
%.....
%calculate sinusoidal
h5 = \sin(2*pi*n/20);
%ploting
stem(n,h5)
  grid minor
  title('h5(n) = sin(2*pi*n/20) for n = -40:...:40')
  xlabel('-40 < n < 40')
  ylabel('h5(n)')
% Periodicity
fprintf('Signal is periodoc with fundamental period equals to 20\n');
```

Signal is periodoc with fundamental period equals to 20



Published with MATLAB® R2021b