**TUGAS**

1. Menjawab pertanyaan setiap langkah-langkah percobaan

* Sinyal waktu kontinyu

Fs=100;

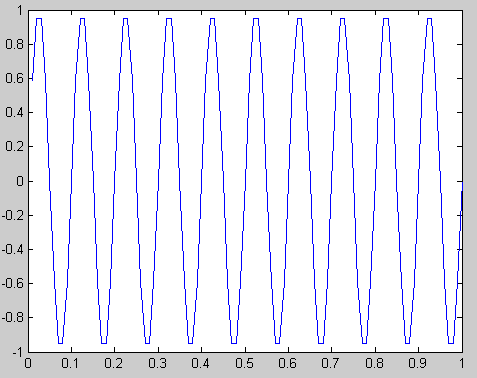
t=(1:100)/Fs;

s1=sin(2\*pi\*t\*5);

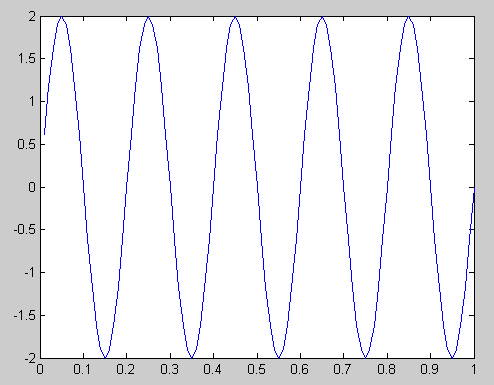
plot(t,s1)



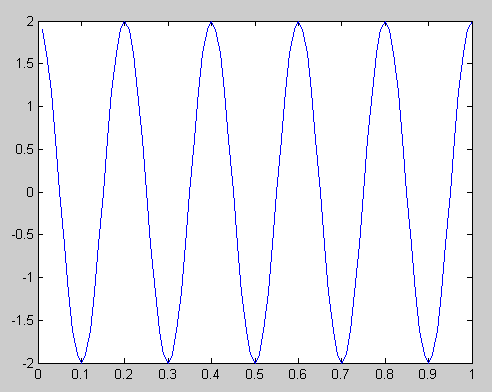
* s1=sin(2\*pi\*t\*10);



* s1=2\*sin(2\*pi\*t\*5);



* s1=2\*sin(2\*pi\*t\*5 + pi/2);



* pembangkitan sinyal persegi

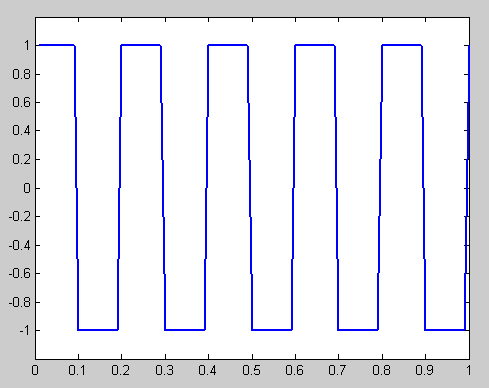
Fs=100;

t=(1:100)/Fs;

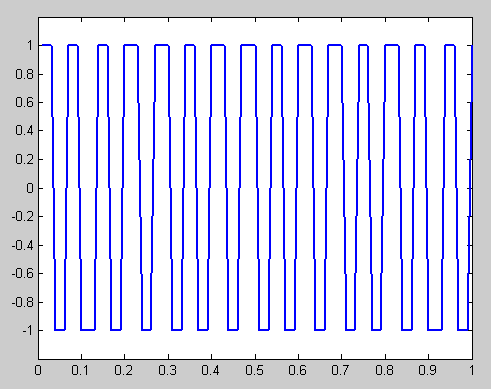
s1=square (2\*pi\*5\*t);

plot(t,s1,'linewidth',2)

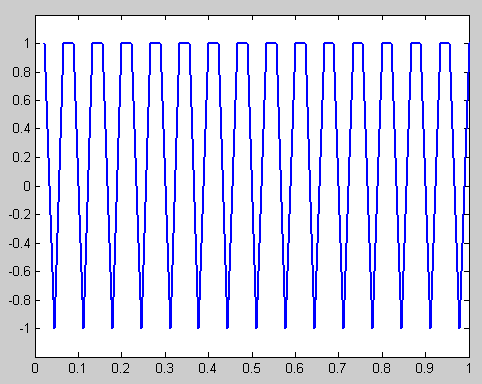
axis([0 1 -1.2 1.2])



* s1=square (2\*pi\*15\*t);



* Fs=45;



* Pembangkitan sinyal diskrit sekuen konstan

L=input('Panjang Gelombang (>=40)=' )

P=input('Panjang Sekuen =' )

for n=1:L

if (n>=P)

step(n)=1;

else

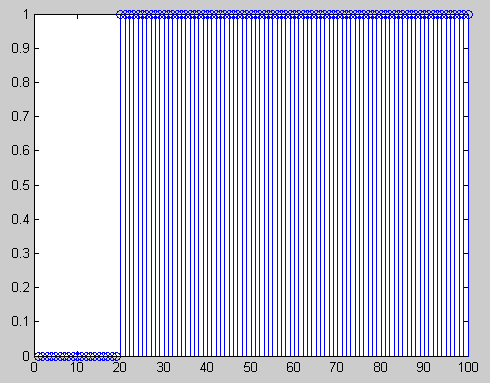
step(n)=0;

end

end

x=1:L;

stem(x,step)



* Pembangkitan sinyal diskrit sekuen pulsa

L=input('Panjang Gelombang (>=40)=' )

P=input('Posisi Pulsa =' )

for n=1:L

if (n==P)

step(n)=1;

else

step(n)=0;

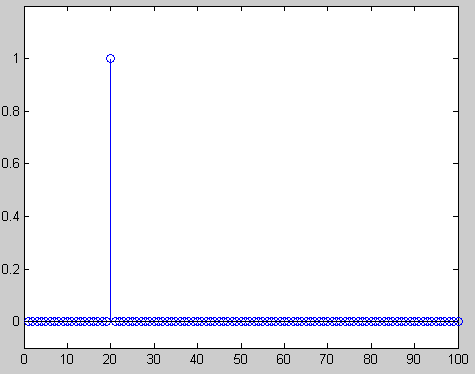
end

end

x=1:L;

stem(x,step)

axis([0 L -.1 1.2])



* Pembentukan sinyal sinus waktu diskrit

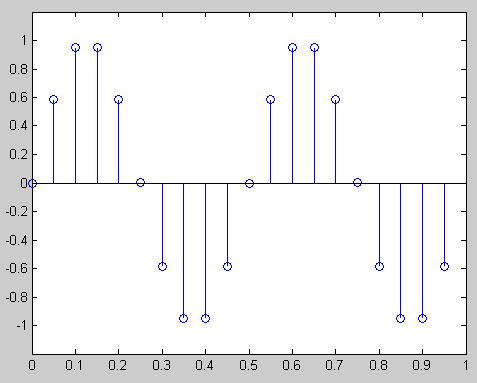
Fs=20;%frekuensi sampling

t=(0:Fs-1)/Fs

s1=sin(2\*pi\*t\*2);

stem(t,s1)

axis([0 1 -1.2 1.2])



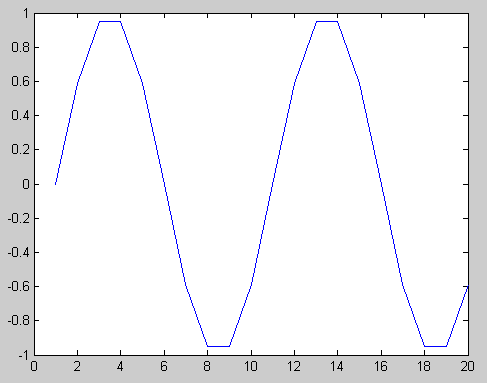
* Pembacaan file wav menjadi bentuk sinyal

[y, fs, nbits] = wavread('botak.wav');

sound(y,fs); tt=length(y);

t=1:tt;

plot(t,y)



* Membuat file wav

Fs=20

t=(0:Fs-1)/Fs

s1=sin(2\*pi\*t\*2);

wavwrite(s1,Fs,16,'botol.wav');