clc;

clear all;

close all;

t=0:0.001:0.3;

choice=input('1.square wave\n2.rectangular wave\n3.triangular wave\n4.negative sawtooth\n5.positive sawtooth')

switch (choice)

case 1 ,

f1=input('enter the frequency of square wave,f1=')

sq\_wave1=square(2\*pi\*f1\*t);

figure;

plot(t,sq\_wave1);

case 2,

f2=input('enter the frequency of square wave,f2=')

sq\_wave2=square(2\*pi\*f2\*t,75);

figure;

plot(t,sq\_wave2);

case 3,

f3=input('enter the frequency of triangular wave,f3=')

tri\_wave1=sawtooth(2\*pi\*f3\*t,0.5);

figure;

plot(t,tri\_wave1);

case 4,

f4=input('enter the frequency of sawtooth wave,f4=')

saw\_tooth1=sawtooth(2\*pi\*f4\*t,0);

figure;

plot(t,saw\_tooth1);

case 5

f5=input('enter the frequency of sawtooth wave,f5=')

saw\_tooth1=sawtooth(2\*pi\*f5\*t,1);

figure;

plot(t,saw\_tooth2);

otherwise

disp('invalid choice')

end