```
%    Basic Practise of MATLAB, CS314, Spring 2003
%    Pratice Set
%
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
clear all;
close;



%    Basic operation

a=1+4*6+4/5
b=sin(pi)
c=cos(2*pi)
d=exp(-5)
f=log(20)

%   Vector and matrix

A=[1 2 3;4 5 6;7 8 9]        %  a 3X3 matrix
B=[1 2 3;4 5 6]              %  a 2X3 matrix
C=[1 2 3]                    %  a row vector
D=[1;2;3]                    %  a colume vector


%

for j=1:20,
x(j)=j;
y(j)=sin(j*10);
z(j)=cos(2*j);
w(j)=exp(-j)+1;
end


%   plot

plot(x,y,'r--',x,z,'b:')
xlabel('time (\mus)')
ylabel('\Sigma_j^2')
text(0,0.5,'curve 1')
axis([0 20 -1 1.5])
legend('curve 1','curve 2')
title('Stress Distribution in Space')
grid
zoom
```