

```

commandwindow
clear
clc
close all
A = [10 -2 1
     -2 10 -2
     -2 -5 10]
B = [9; 12; 18]
% M = [m1; m2; m3]
C = [0 -A(1,2)/A(1,1) -A(1,3)/A(1,1)
     -A(2,1)/A(2,2) 0 -A(2,3)/A(2,2)
     -A(3,1)/A(3,3) -A(3,2)/A(3,3) 0]
D = [B(1,1)/A(1,1); B(2,1)/A(2,2); B(3,1)/A(3,3)]
M = [0;0;0]
for i =1:10
    Normb = norm(M)
M = C*M + D
Norma = norm(M)
error = abs(Norma - Normb)
    if error <= 1E-15
        break
    end
end
M'
error'
tableau = [M' error']

```