```matlab
commandwindow
clear
clc
function M = myjacobi1(J,K,m0,tol)
J = [10   -2   1; -2   10   -2; -2   -5   10];
K = [9   12   18]';
m0 = [0   0   0]';
max1 = 100;
tol = 1E-15;
n = length
format long g
for k = 1:max1
    for i = 1:n
        %iter(i + 1)=i;
        M(i) = (K(i)-J(i,[1:i-1,i+1:n])*m0([1:i-1,i+1:n]))/J(i,i)
    end
    err = abs(norm(M'-m0));
    Paul = err/(norm(M));
    m0 = M';
    if(err<tol)|(Paul<tol)
        break
    end
end
M = M'
```