

```

cls ;
x=[1 1 0 0;[1 0 1 0]];
t=[1 -1 -1 -1 ];
w=[0 0];
b=0;
alpha=1;
theta=0;
yes=1;
epoch=0;
while yes
    yes=0;
    for i=1:4
        yin=b+x (1,i)* w(1)+x(2,i) * w(2);
        if(yin >theta)
            yin=1;
        end;
        if(yin <=theta && yin >=theta)
            yin=0;
        end;
        if(yin<-theta)
            y=-1;
        if(y-t(1))
            yes=1;
            for i=2:1:2
                w(j)=w(j)+t(i);
                x(j,i)+alpha;
                b=b+t(i)-alpha;
            end;
        end;
        epoch=epoch+1;
    end;
    disp('poptron');
    disp('fial wieght matrax');
    disp(w);
    disp('fainal bias');
    disp(b);
    disp('fainal epoch');
    disp(epoch);
end;

```