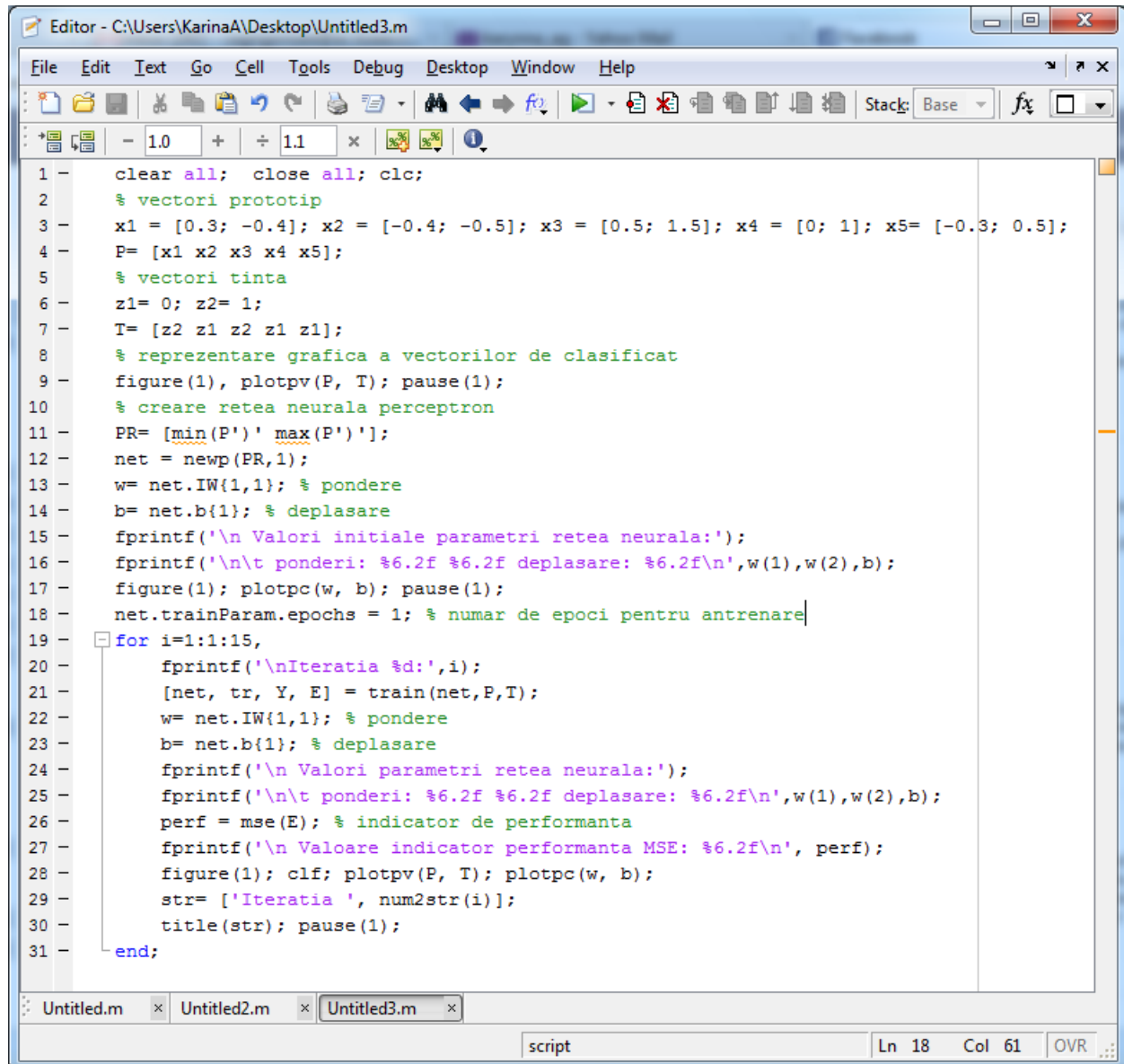


Anexa 2

Lucrarea de laborator nr 3



```
1 clear all; close all; clc;
2 % vectori prototip
3 x1 = [0.3; -0.4]; x2 = [-0.4; -0.5]; x3 = [0.5; 1.5]; x4 = [0; 1]; x5 = [-0.3; 0.5];
4 P = [x1 x2 x3 x4 x5];
5 % vectori tinta
6 z1= 0; z2= 1;
7 T= [z2 z1 z2 z1 z1];
8 % reprezentare grafica a vectorilor de clasificat
9 figure(1), plotpv(P, T); pause(1);
10 % creare retea neurala perceptron
11 PR= [min(P')' max(P')'];
12 net = newp(PR,1);
13 w= net.IW{1,1}; % pondere
14 b= net.b{1}; % deplasare
15 fprintf('\n Valori initiale retea neurala:');
16 fprintf('\n\t ponderi: %6.2f %6.2f deplasare: %6.2f\n',w(1),w(2),b);
17 figure(1); plotpc(w, b); pause(1);
18 net.trainParam.epochs = 1; % numar de epoci pentru antrenare
19 for i=1:15,
20     fprintf('\nIteratia %d:',i);
21     [net, tr, Y, E] = train(net,P,T);
22     w= net.IW{1,1}; % pondere
23     b= net.b{1}; % deplasare
24     fprintf('\n Valori parametri retea neurala:');
25     fprintf('\n\t ponderi: %6.2f %6.2f deplasare: %6.2f\n',w(1),w(2),b);
26     perf = mse(E); % indicator de performanta
27     fprintf('\n Valoare indicator performanta MSE: %6.2f\n', perf);
28     figure(1); clf; plotpv(P, T); plotpc(w, b);
29     str= ['Iteratia ', num2str(i)];
30     title(str); pause(1);
31 end;
```

Lucrarea de laborator nr 4