```
% Aditya Agre
% SYCOA06
% hebb learning Rule
clear all
% Consider bipolar and function with bias
x=[1 \ 1; \ 1 \ -1; \ -1 \ 1; \ -1 \ -1]
x = 4 \times 2
   1
        1
   1 -1
   -1 1
-1 -1
% target output
t = [1 -1 -1 -1]
t = 1 \times 4
   1 -1 -1 -1
w = [rand(1, 2)] % Initial weights are randomly assigned
w = 1 \times 2
  0.8154 0.8790
b = 0.9889
for i = 1: 4
   for j = 1:2
       w(j) = w(j) + t(1,i) * x(i, j);
       % w new
    end
    b = b + t(i);
end
"Updated weights and bias"
"Updated weights and bias"
w = 1 \times 2
   2.8154 2.8790
b
b = -1.0111
```