PERCEPTRON_

```
P < inputs with Jabel 1
Algorithm >
               N a inputs with label -1
 Followed
               Intealize W:
               while I convergence do
                  Bok x & PUN
                  Ef xEP and & we *xe < 0 then
                      W=W+X;
                  of NEN and & we *xe zo then
                      w= w- n;
 X=[[1,1],[-1,-1],[0,05],[0.1,0.5],[0.2,0.],[0.4,0]
 W= [1, 1]
                                   (0,1) P
O x=[1,1] W=[1,1] Label=+1
     wx 20 => pud = +1 (correct)
                                   (-1,0)
                                                11.01
> No Weight Update
> Eq of line => 1.22+1.y=0
                                       (0,-1) +
Q. n=[-1,-1] w=[1,1] Label = -1
      W. x = -2
     wn <0 => pul =-1 (count)
 No Wight Update
7 Eq of lin 3 1.7+1.4=0
```

14054=0

