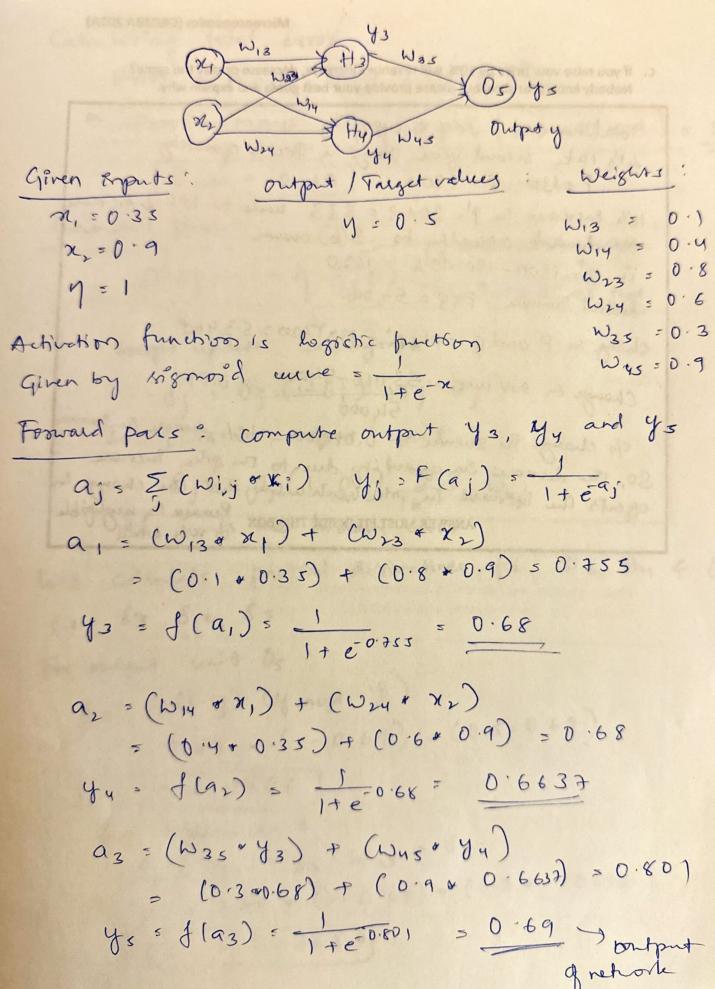
Strp 8 .



```
Calculating total error
    Brook = MSE = 1 Z(y-9)2
  a ESTON = MAG = 14-21 = (0.2 - 0.69) = 0.19
      (3 Hotal = 0.19)
Barbward pars
      Dwg: = n & oitput at that
     weight update learning rate
         Es = 0; (1-0;) (+;-0;)
     If is an ontport wait
      8; 50; (1-0;) \( \Sk \widety\)
      If is an hidden unit
 lets columete partial dissirctives for they they for
  i.e 83,82,85
 For output unit 05:
    85 = y (1-y) (y souget -y)
       5 0.69 * (1-0.69) * (0.5-0.69)
    83 5 40.0406
     For hidden unit
        83 = 43 (1-43) W35 = 65
            5 0.68 & (1-0.68) & (0.3 & -0.040E)
        83 50.00265
```

fy = yy (1-yy) Wys + ds 5 0.6637 * (1-0.6637) ~ (0-9 + -0.0466) [fy 5 - 0.0082] Since we have poutial desiratives let us compute new weights DWG: = 78,00 DW45 = 7 85 yy 5 1 - -0.0406 + 0.6637 DW45 5-0.0289 Wys(rew) = D Wys + Wystodd) 5 -0.0269 +0.9 [hyperen) > 0-8731 DW14 = Mgyx, = 1 + -0.0082 +0.35 AW14 = -0.00287 Wigness) 5 DWig + Wig Cold) = -0.00287 + D.y Wincers) 5 - 0.00288 + 0.4 5 0.3921 [Williams) 5 0 .3971)

DW13 = 963 x, 5 1+ (-0.00265)+0.35 Wigney = DW13 + W13 cold) = (10 (-0.00265) + 0.35)+0.1 = 0.0991 W13 and = DW13 + W13 (old) > (1+ (-0.00265) + 0.9] + 0.8 = 0.7976

= (1+ (-0.008r)+0.4)+0.6 Wzy (new) = D Wzy + Wzy (old) (Wm (Lew) = 0.5926) W35(Lev) = D W35 P W35(old) = (1 + (-0.0406) + 0.68) + 0.3

[W35(New) = 0.2724

thus, weight an updated after backward pais and this loop goes on watil a minima is reached