```
f(x) = \frac{1}{1 + e^{-x}}
out , = R(w, x ig + w2 x iz + b1 x1)
   = F(0.15 *0.05 + 0.20 * 0.10 + 0.35 X1)
      = F (0.3775)
       = 1 + e-0.3775
       = 0.59327
 out hz = F(w3 xi1 + wy x 12 + b2 x1)
       = P(0.25 * 0.05 + 0.30 * 0.10 + 0.35 * 1)
       = P(0.3925)
       =\frac{1}{1+e^{-0.3925}}
      = 0.59689
out o1 = P(ws x outh, + w6 x outhz + b3 x1)
      = P(0.40 * 0.59327 + 0.45 * 0.59689 + 0.60 *1)
      = P(1.10591) = 1
       = 0.75137
out oz = P(W7 *outh, + W8 *outhz + 64 *1)
         = F(0.50 X0.59327 + 0.55 X 0.59689 + 0.60 X1)
         = f (1.22492)
          = 1 + 0-1, 22492
           = 0.77293
```

CHARIE

Date

 $E = \frac{1}{2} (T_1 - aut_0)^2 + \frac{1}{2} (T_2 - aut_0)^2$ = $(0.01 - 0.75137)^2 + (0.99 - 0.77293)^2$ = 0.298371

So. = (Ti - outor) * outor * (1 - outor) (0.01 - 0.75137) * 0.75137 * (1-0.75137) = -0.13850

 $w_5^+ = w_5 + n \times \delta_0$, * outno = 0.40 + 0.5 \times (-0.13850) * 0.59327 = 0.3589**1**648 ~ 0.35892

= 0.45 + 0.5 + (-0.13850) + 0.59689= 0.408666186 ~ 0.40867

> $b_3^+ = b_3 + n * \delta_0, * 1$ = 0.60 + 0.5 * (-0.13850) * 1 = 0.53075

Poz = (Tz - outoz) * outoz * (1 - outoz) - (0.99 - 0.77293) * 0.77293 * (1 - 0.77293) = 0.03810

 $w_7^2 = w_7 + n + 802 * out_n$ = 0.50 + 0.5 * 0.03810 * 0.59327 = 0.511301270 ~ 0.51130 $w_8^{\dagger} = w_8 + n \times 802 \times out_{n2}$ = 0.55!+0.5 \times 0.03810 \times 0.59689 = 0.561370121 \simes 0.56137

> $b_{4} = b_{4} + n \times 802 \times 1$ = 0.60 + 0.5 \times 0.038 \to \times 1 = 0.61905

Shi = (Soi Xw5 + 802 Xw7) x outh, x (1 - outh) = (-0-13850 x 0.40 + 0.03810 x 0.50) x 0.59327 x (1-0.59327) = -0.60877

 $w_1^2 = w_1 + n_2 * Sh_1 * i_1$ = 0.15 + 0.5 * (-0.00877) * 0.05 = 0.149780716 ~ 0.14978

 $w^{\pm} = w^{2} + n * 8n * i^{2}$ = 0.20 + 0.5 * (-0.00877) * 0.10 = 0.19956 143 ~ 0.19956

> $b_1 = b_1 + n * 8n * 1$ = 0.35 + 0.5 * (-0.00877)*1 = 0.34562

ohz = (80, xw6 + 802 xw8) * outhz * (1-outhz) = (1-0.13850) * 0.45 + 0.03810 * 0.59689 * (1-0.59689)

= -0.00995

 $w_3^+ = w_3 + \eta + \delta_{\eta 2} + i_1$ = 0.25 + 0.5 + (-0.0695) + 0.05 = 0.24975 | | | \sigma 0.24975

 $w_{4}^{+} = w_{4} + n * 8h^{2} * i^{2}$ = 0.30 + 0.5 * (-0.00995) * 0.10 = 0.29950 229 ~ 0.29950

 $b^{\dagger}2 = b2 + n + \delta n^2 + 1$ = 0.35 + 0.5 * (-0.00995) * 1 = 0.34503

