Nama: Rizzi Purnomo P. (nais) Wim: 5220411070 Training Set X = Y . X = 1 - 1 X1-1, X2 = 0 -01 X, =0 , X2 = 1 -1 0000 : X10: X Random Weight. Wo: 1,5', W== 5,1 W== -0,75 fungsi aktivasi (1) = 0,555. wrong => peruluhan bias = Xo=1. learning rate (1)=0,575 Epoch 1 a) x, = 1 x2= 1 -> 1,5.1 +5.1.1 + (-0,75).1=5,85-> 1 Ok. b) X, =1, X2=0-6, 5.1+5,1.1+ (-0,75).0=6,6-01 OK c) x, =0. xz=1 -> 1,5.1+5,1.0+ (-0.75).1=0.75->1 0k. 0,555 d)x(=0, x2=0 - 1,5.1+5,1.0+(-0,75).1 = 1,5 →1 Wrong 0,75 6 Err = tage - Output = 0 -1 = -1 ¿ ω = η. Err. xo = 0,575. -1. 1= -0,575 Dur= η- Err. X1 =01575. -1.0=0 OW2= 1. Cm. X2 = 0,575. -1. 0= 0 Wo-baru = Wo+ &Wo= 1,5+ (-0,575)=0,925 Wi-ban = Wi+ AWi = 5,140 = 5,1 W2-baru= W2+ BW2= -0,75 +0= -0,75 Wo = 0,925 ; Wi = 5,1 ; Wz=-0,75 Epoch 2 a) x, = 1, x2 = 1 -> 0,925.1+5,1,14 (-0,75).1=5,275-1. Ok. b) x1=1, x2=0 -0 0,925.1+5,1.1+ (-0,40.0=6,0245-01 DE 0) x, =0 , x = 0 -0 0,925.1 +5,11.0+(-0,75),1 = 0,175 -0 QUion 0,552 Q 6 Err = target - Output = 1-0=1 24,0 1 Wo - n. Err . 40 = 0, 575. 1.1 = 0,575 ωωι = η. Err. X,= 0,575.\$1.0= 0 6 W2 = N. Err. X2 > O1575. 1.1 = 0,575. Wo-bun=Wo+ 6Wo= 0,925+0,575=1,5 Wi-bon = Witsler = 5,140= 5,1 W2-Laru = W2+ SW2=-0,75+ QUELLEHER O,575=0,175 Wo= 1,5 ; W,= 5,1 ; W2= -0,175



(IIdiz)
(mon)) 10-211=0.(741,0-) + 0.1,7+7,1.10-0=1X (b)
6 Err = tonget - Output = 0-1 = -1
(0,552) Phos V. Enr. XO = 0,5751.1 = -0,575
1-0,145 BW1 = 1. Em. X1 = 0,575-1.0=0
(15 5.11 0 lu 2 : 1 . Em . X2 = 0,5751.0=0
() () Wo-boru= 1,5 + (-0,575) = 0.025
W1-barus 5,1+0 = 5,1
1 x_1 x_2 y_2 -bara = -0,175 to = -0,175
Wo= 0,925; W1= 5,1; W2= -0,175
Flowh 3
(a) x, =1; x2=1-6 (1025.1 + 5,1.01 + (-0,175).1-5,85-01 OF
()x,=1;x2=0 -0 0,025.1+5,1.0+(-0,175).0 26,0245410k
The state of the s
0.925 / 1/1 (e) X, = 0, X, = 0 0, 0) 25. 1+ 5, 1. () + (-0.145) . () , 925- 1 Wyon
4 Err = target - Oct pat = 0-1 = -1
Wo = η.err. xo = 0,5771.1 = -0,575
DW1 = 1.8r. x0= 0:577,-10= 0
bW1 = N Err. x2 = 0,5751.0= 0
Wa-zora=Wo + 6Wo = 0,025+ (-0,575)=0,35
Wizaru Wi+6W, = 5,1 +0 = 5,1
(U2 - 601/2 = W2 + AW2 = -0, 175 +0 =-0, 175
Wo = 0,35 ; W1 = 5,1 ; W2 = -0,175
Epoch 4
$(a)X_1 = 1_1X_2 = 1 \rightarrow 0.35.1 + 5.1.1 + (-0.175). 1 = 5.275 \rightarrow 1 OF$
101 M 1 M 100 013811 1 (1.1) - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
110 (01175 - 0) 125 - 0) 14 mag
0.35 To -0.175 Lo Err= Tanget - Output: 1-0=1
2 fe i 0 = 0,575.1.1 = 0,575
Q Q Q 6W1 = 0.575.1.0 = 0
1 X1 X2 6W2=01575.1.1=01595
Wo-bar = Wot sluo= 0,35+ 0,575= 0,925
W1-20m = W1+ AW1 = 5,1+ U= 5,1
W2-bar= W2+AU2= -0,175+0,575=0,4
(1) = CARE 1 11 11 12 4
Wo= 0,925; W1=5,1; W2= 014



(Epoch (lanjulan Sebelumnya) 1)×,=0; ×,=0-0 0,925. 1+ 5,1.0+0,4.0=0,025 → 1 (Wrong) 0,555 Lo Err= Target - Output = 0-1 = -1 SW0= N. Err-X0= 0,575-1.1 = -0,575 0,4 0,925 NW1= n.E. X, = 0,575. -1.0 blux = 1. E. +2 = 0,575, -1. 0 =0 Wo baru = 0,925 + (-0,575)=0,35 W, -bom = 5,1+0=5,1 W2-ban = 0,4+0=0,4 Wo: 0,35; W, = 5,1; Wz=0,4 Epoch 5 10-8/5-1. WO + 1. 15 + 13810 0-1=5/85-01 () K () 15 22 Diy (E)x,=0;x2=1-00,35,1+5,1.0+0,4.1=0,75-01 OF 0,35 6) x, =0; x2=0 -0 0,35.1+ 5,1.0 +0,4.0 = 0,35 -0 Korera Semua Iterasi Pada Epoch ke-5 Sudah Sesuai dengan target perception burhenti dan telah selesai di Epoch Fe-5 maka

Implementasi ke dalam kode python

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https://www.kaggle.com/code/rizkipurnomo/menghitung-epoch