Do manual ralculations for two iterations for two iterations optimizer.

Step. 4:
$$y = mx_1 + c$$

 $y = (1)(0.2) - 1 = 2 - 0.8$

Step.5.
$$e = \frac{1}{2} (3.4 - (-0.8))^2$$

= .8.82

Slep. 6
$$\frac{\partial e}{\partial m} = -(y_1^a - mx_1^a - c)x_1^a$$

$$= -(3.4 + 0.8)(0.9)$$

$$= -0.344$$

$$\frac{\partial e}{\partial c} = -(y_1^a - mx_1^a - c)$$

$$= -(3.4 + 0.8)$$

$$= -4.9$$

$$= -4.9$$

$$= 0.9.0 - 0.1'(0.84)$$

$$= 0.084$$

$$v_c^t = v_1^a v_0^{t-1} - \eta \frac{\partial e}{\partial m}$$

$$= 0.084$$

$$v_c^t = v_1^a v_0^{t-1} - \eta \frac{\partial e}{\partial m}$$

$$= 0.084$$

$$v_0^t = v_1^a v_0^{t-1} - \eta \frac{\partial e}{\partial m}$$

$$= 0.9.9 + 0.1(-4.2)$$

$$= 0.49 + 0.1(-4.2)$$

$$= 0.49 + 0.1(-4.2)$$

$$= 0.49 + 0.1(-4.2)$$

$$= 0.49 + 0.1(-4.2)$$

$$= 0.49 + 0.1(-4.2)$$

0-330-1+0.084 = -1+0.42

1-21.084

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Step. 9: Sample = Sample + 1 = 2 and
$$9 < 0.5 = 4$$

Step. 10: $y_1 = mx_1 + c$
 $y_2 = (1.084)(0.4) - 0.58$

Step 11:
$$e = \frac{1}{9}(3.8 + 0.1464)^{2}$$

Step.1a:
$$\frac{\partial e}{\partial m} = -(3.8 + 0.1464)(0.44)$$

$$= -1.58$$

$$\frac{\partial e}{\partial c} = (-(3.8 + 6.1464)^{-0.00})$$

$$= -3.94$$

otep. 14:
$$M = 1.084 + 0.2336$$
 $C = -0.58 + 0.772$
= 1.3176 = 0.192

Slep. 15: Sample = Sample + 1 = 2 and 2 not < ns = 2 Olep. 16: iter=iter+1=2 and itu, < epochs=2 Step 17: Set sample=1 Y1=(1.3176)(8.2) + 0.192 dtep.19: e = 1 (3.4 - 0.45552) = 0.45559 147224 4.33498184 Step. 20: (3.4-0.45552) (0.9) -1.9682503Q. $\frac{\partial e}{\partial c} = -(3.4 - 0.45552)$ (A) (ASPERS - 89: 94448 step. 21: Vm = 0,9 0, 2336 + 0,1 (0,588896) = 0,2691296 Vc = 0.9°0.772+0.18(2.94498) = 0,989248

Slep :
$$\frac{1}{3}$$
: $\frac{1}{1}$: $\frac{$

```
Step. 27: Vm = 0,9 × 0,2691296 + 0.1 (6.7936246)

= 0,9 × 0,989248 + 0.1 × (1,9840616)

= 1.08872936

8tep. 28: m= m+Vmt , c=c+ Vct
```

8tep. 28: $m = m + v_m t$ $c = c + v_c t$ = 1.586286 = 1.181248 + + 0.321529104 1.08872936

=1.9083051 =1.9083051 =1.9083051 =2.9.083051

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