Issigriment - 9 * Momentum optimized sample(i) 0-2 3.4 0.4 3.8 0.6 4.2 0.8 4.6 -> Manual calculations step1: [1,y), m=1, c=-1, M=0.1, epochs = 100, V=0.9, Vm= V=0, n=2 iter = 1 Step2: sample = 1 Step3: = 1 (y;-mx;-c) Step4: - (y;-mx;-c)x; gc = DE = - (y;-mn;-c) (3.4-1(0.2)+1)(02) - (A·5) (0·5)

$$g_{c} = -(3.4 - 3(0.2) + 3)$$

$$= -4.2$$

$$5 + cps > V_{m} = 7V_{m} - Mg_{m}$$

$$= (0.9)(0) - (0.3)$$

$$(-0.84)$$

$$V_{c} = 7V_{c} - Mg_{c}$$

$$= (0.9)(0) - (0.3)(-4.2)$$

$$= 0.42$$

$$5 + cps > m = m + V_{m}$$

$$= 1 + 0.084$$

$$= 1.084$$

$$c = c + V_{c}$$

$$= -1 + 0.42$$

$$= -0.58$$

m = 2.0847 0.23 Steps: = 1.314 C = -0.58 + 0.77 - 0-19 Hopa 1 go to Nent Step Step8 > it = 2 if (it > epochs) step9; next step. Go to Step 3. sample = 1 step4 : gm = - (3.4 - (2.314) (02) -0,588

Hepsi
$$V_{m} = (34 \cdot (3.334)(0.0) - 0.31)_{m}$$
.

 $= -2.94$.

 $V_{m} = (0.9)(0.23) - (0.3)(-0.3)(-2.14)$
 $= 0.96$
 $V_{c} = (0.9)(0.93) + (0.3)(-2.14)$
 $= 0.96$

Hepsi $M = 1.324 + 0.26$
 $= 1.574$
 $C = 0.1940.96$
 $= 1.47$

Hepsi $S = 2>2$ false

 g_{0} to $Step 4$.

Hepsi $S = (3.8 - (3.574)(0.4))$
 $= -(2) \times 0.4 = -0.8$
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Steps:
$$M = 1.574 + 0.314$$
 $= 1.88$
 $C = 1.47 + 1.08$
 $= 2.25$

Steps: $3 > 2$ go to nent step

Iteps: $1 + 3$

Steps: $1 + 3$

Iteps: $1 + 3$
 $1 + (1 + 2 + 2)$
 $1 + (3 - 2)$

go to nent step.