Day-1 (x)	Day-2 (y)
5551.82208	4931.26380
4983.17184	4775.53963

Step 1:- Read dataset, $\eta = 0.1$, epochs = 2, $m = 1$, $c = -1$, $\gamma = 0.9$

$V_m = 0$ & $V_c = 0$

Step 2:- Set iteration = 1

Step 3:- Set sample $i = 1$

Step 4:- $y = (1)(5551.82208) - 1 = 5550.52208$

Step 5:- $\frac{\partial E}{\partial m} = -(4931.26380) - 1)(5551.82208) + 1)5551.82208$

$\frac{\partial E}{\partial m} = 3439677.338750$

$\frac{\partial E}{\partial c} = -(4931.26380 - 1(5551.82208) + 1)$

$\frac{\partial E}{\partial c} = 619.55328$

Step 6:- $V_m = 0.9(0) - (0.1)(3439677.338750)$

$V_m = -343967.733375$

$V_c = 0.9(0) - (0.1)(619.55328)$

$v_c = -61.95583$

Step 7:- $m = 1 + (-343967.733375) = -343966.733375$

$c = -1 + (-61.95583) = -62.95533$

Step 8:- Sample $i = i + 1 = 2$

Step 9:- $y = (-343966.734)(4933.17184) + (-62.95533)$

$y = -1714045405.72$

Step 10:- $\frac{\partial E}{\partial m} = -((4775.53968 - (-343966.734)(4933.17184) - (-62.95583))(4953.17184)$

$\frac{\partial E}{\partial m} = -(4775.53968 + 1714045405.72)(4933.17134)$

$\frac{\partial E}{\partial m} = -8541406595607.112$

$\frac{\partial E}{\partial c} = -1714050181.261$

Step 11:- $v_m = 0.9(-343967.734) - (0.1)(-8541406595607.112)$

$v_m = -854140969131.64$

$v_c = 0.9(-61.95583) - (0.1)(-1714050181.261)$

$v_c = -171405073.88634$

Step 12:- $m = -343966.734 - 854140969131.67$

$m = -854141313093.4$

$c = -62.955583$

Step 13:- interaction $+1 = 2$. simple -1

Step 14:- $Y = (-854141313098.4)(5551.82208) + (-62.955583)$

$Y = -4.742040601415$

Step 15:- $\frac{\partial E}{\partial m} = -(4931.26380 + 4.742040601415)$
(5551.82208)

$= -2.632696571561419$

$\frac{\partial E}{\partial c} = -4.722040601506415$

Step 16:- $v_m = (0.9)(-854140969131.67) - (0.1)$
(-2.632696571561419)

$= 2.632695818$

$v_c = (0.9)(-171405073.83634) - (0.1)(-4.742040601506415)$

$= 4.742039061414$

Step 17 :- $m = 3541413096.4 + 2.632695E18$

$= 2.632 \times 9495E18$

$c = -62.95583 + 4.742039006E14$

$= 4.742039006e14$

Step 18 :- Sample $i + 1 = 2$

Step 19 :- $Y = (2.632694956E18)(4983.17184) + 4.742039.618)$

$Y = 1.311917186E22$

Step 20 :- $\frac{\partial E}{\partial m} = -((4775.53968 - (2.632694956E18)(4983.1718$

$-474203906E14))$

(4983.17184)

$= -(4775.53968 - 1.311917186E22)(4953.17184)$

$= -6.537508756E25$

Step 21 :- $v_m = (0.9)(2.6326958E18) - (0.1)(-6.537508756E25)$

$= 6.537511126E24$

$v_c = (0.9)(4.742039006E14) - (0.1)(-1.311917186E22)$

$= 1.311917616e21$

Step 22 $m = 2.682694951 + 6.55111124)$

$m = 6.537513251 24$

$c = 4.742039006E14 + 1.311917611.21$

$c = 1.311918086E21$