Step 1:- $x = [0.2, 0.4, 0.6, 0.8, 1.0, 1.2]$

$y = [3.4, 3.6, 4.2, 4.6, 5.0, 5.4]$

$m = 1, c = -1,$ Learning rate $= 0.01$

batch-size $= 2$ $Vm = 0$ $Vc = 0$

$mc = 0.9$

Step 2:- Batch $= 1$

grad $m = -1.3$

grad $c = -4.3$

Step 3:- delta $m = 0.0130$

delta $c = 0.043$

Step 4:- $Vm = Vm * mc + delta\ m = 0.01300$

$Vc = Vc * mc + delta\ c = 0.043$

Step 5:- $m = m + Vm = 1.013$

$c = c + Vc = -0.957$

Step 6:- Batch $=$ Batch $+ 1 = 2$

Step 7:- grad $m = -3.23046$

grad $c = -4.601010$

Step 8:- delta $m = 0.0323046$

delta $c = 0.046010$

Step 9:- $V_m = 0.0440046$

$V_c = 0.0842101$

Step 10:- $m = 1.0570046$

$c = -0.8722879$