## Question - 6

Doute	lime	load
01/04/2018		5551.82 4483.13

load is predicted based on previous hour load and load at sametime but one day before.

Step-1:- Read dataset, Set M=0:1, epuchs=1, m=1, c=-1, E<sup>2</sup>gm,0 = E<sup>2</sup>gc,0=0, Ec,0=E<sup>2</sup>m,0=0, Δm0=ΔC0=0

steps: set iteration=1

Step=3: set sample i=1

step-y: cod gm and gc  $g_m = -(y_i^n - mx_i^n - c)x_i^n$ 

= -(4931.26 -6551.82+1)(555).82) 9m = 34396851599

$$\begin{aligned}
\frac{dq}{dc} &= -(q_1^{2} - m n_1^{4} - c) \\
&= -(4931.26 - 6551.82 - 1)
\end{aligned}$$

$$= -(4931.26 - 6551.82 - 1)$$

$$= 619.56$$

$$= \frac{3}{9}mt = \frac{3}{9}t^{2}q_{m,k-1} + (1-3)(9m)^{2}$$

$$= 0.9 \times 0 + (1-0.9)(3439685.599)^{2}$$

$$= 1.18 \times 10^{12}$$

$$= g_{c,t} = 8 = g_{c,t-1} + (1-8) (g_c)^2$$

$$= 0.9 \times 0 + (1-0.9) (819.56)^2$$

$$= 38385.45$$

step-5 calculate exponential decaying ang. Steplength  $E_{m,1}^2 = 3E_{m,t-1}^2 + (1-3)EDML-J^2$ 

$$= 0.980 + (1-0.9) \times 0$$

$$= 0$$

$$= 0.980 + (1-0.9) \times 0 = 0$$

(D)

$$m = 1 - \sqrt{0 + 10^{\frac{1}{2}}} + 10^{\frac{1}{2}}$$

$$\sqrt{1.18 \times 10^{\frac{1}{2}} + 10^{\frac{1}{2}}}$$

$$= 0.009$$

$$c = C - \sqrt{\frac{6^{2}}{c_{c}}} + \frac{1}{6}$$

$$= -1 - \sqrt{0 + 10^{\frac{1}{2}}} + 6 \cdot 19.56$$

$$\sqrt{37385.45 + 10^{\frac{1}{2}}}$$

$$= -1.0003$$

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= 186.800

=0.9 x 38385.45 + (1-0.9) (156.808)

= 37005.77

=0.9KO+(1-0.9)(0.99)2

= 0.09X

=0.9x0+(1-0,9)(-1,0003)

= 0.10006

step-6: update mec

$$M = 0.99 - \sqrt{0.098 + 10^{-8}} \times (781400.92)$$

$$\sqrt{1.123 \times 10^{2} + 10^{8}}$$

m=0,989

Step-2 cample i=i+1=3 if 3 not z= ns goto nent

iteration l=++1=27epuchs