Estimate the load at particular hour of the day (LCT)) based on previous three hours load [LCT-1), (CT-1), LCT-3)] using multifle livear regression model.

Manual Calulations

Step1: fead m1=1, m2=1, ^c=-1, N=0.1, iter=1,

Ms = 2 .

Step 2: iter = 1.

step 3: 1=1.

Step 4: $\frac{\partial \epsilon}{\partial m_1} = -(y - m_1 \pi_1 - m_2 \pi_2 - m_3 \pi_3 - c) \pi_1$ = -(5000.47452 - (6292.8756) - (5349.8016)-(5225.4093)) 6292.8756

2 + 74681405.86

 $\frac{\partial E}{\partial M_2} = -(y - M_1 \pi_1 - M_2 \pi_2 - M_3 \pi_3 - C) \pi_2$ = -(5000.47452 - (6292.8756) - (5349.8016) -(5225.4093))(5349.8016)

2 + 63489369.56

 $\frac{\partial E}{\partial m_3} = -(y - m_1 m_1 - m_2 m_2 - m_3 m_3 - c) m_3$ = -(500 - 47 452 - (6292.8456) - (5349.8016) -(525-4093))(525-4093)

2 +62013130.01

$$\frac{\partial e}{\partial c} = -(y - m/11 - m$$

Step 5:
$$\Delta m_1 = -1(3e)$$
 $= -(32055 \times 10^{11})$
 $= -(32055 \times 10^{11})$
 $= -(31055 \times 10^{11})$
 $=$