Q=0, Q1=0 maliyet fonk. ve hata hesapla
1. adim:
ha(0) = 0+0.0 = 0
$J(0) = \frac{1}{2m} \sum_{i=1}^{m} \left( ha(x_i) - y_i \right)^2 = \frac{1}{6} \left[ (-1)^2 + (-2)^2 + (-3)^2 \right] = \frac{14}{6}$
$Hata_1 = ha(0) - y_1 = -1$
Hota2 = ha(1) - y2 = -2
$tbta_3 = ha(3) - y_3 = -3$
2.odim
$\frac{3}{300} = \frac{1}{3} = \frac{3}{1=1} \text{ halx}_i - y_i)_{x_i} = \frac{1}{3} \cdot (-1-2-3) = -2$
200 3 1=1
$\frac{3}{30} = \frac{1}{3} \cdot \frac{3}{1=1} \text{ ho(x; -y;)x; } = \frac{1}{3} \cdot (-1.0 - 2.1 - 3.3) = -2.67$
AB1 - 1=1
0, 0 = 0, 0 - 2 = 0 = 0 - 0,1.(-2) = 0,2
$0,1 = 0,0 - 0,0$ =) $0 - 0,1 \cdot (-2,67) = 0,26$
$\frac{1}{201} = 0.26$
2. iterasyon:
$\Theta_0 = 0.2 - 0.1 \cdot \left( = \frac{1}{3} \sum_{i=1}^{n} y_i^i \right) = 0.2 - 0.1 \cdot \left( -\frac{1}{3} \cdot \left( 1 + 2 + 3 \right) \right)$
$0_1 = 0.26 - 0.1 \cdot \left(-\frac{1}{3} \underbrace{\frac{3}{i=1}}_{i=1} y_i \cdot x_i\right) = 0.26 - 0.1 \cdot \left(-\frac{1}{3}(1.1 + 2.1 + 3.3)\right)$
$0.6 = 0.2 + 0.1 \cdot 2 = 0.4$
$Q_1 = 0.26 + 0.1.2.67 = 0.557$
3. iterosyon:
$Q_0 = 0.4 - 0.1 \cdot (-\frac{1}{5} \cdot (1+2+3))$
$Q_1 = 0.557 - 0.1 \cdot (\frac{1}{5} - (1.1 + 2.1 + 3.3))$
00 = 014 + 011.2 = 014 + 012 = 016
01 = 0,557 +0,1 - 2,67 = 0.824