02220224004

RANA NUR ORTAY- Sayısal Analiz Dersi 1. Ödev =>

1

$$\frac{1}{m}\sum_{i=1}^{m}(\theta_0+\theta_1 x_i - y_i).1 = \frac{1}{3}[(-1)+(-2)+(-3)] = -2$$

$$\frac{1}{m}\sum_{i=1}^{m}(\theta_0+\theta_1 x_i - y_i).x_i = \frac{1}{3}[(-1).0+(-2).1+(-3).2] = \frac{-8}{3} = -2,6$$

2

$$\theta_0 = \theta_0 - \alpha\frac{\partial J(\theta)}{\partial \theta_0} = 0,2-(0,1).(-2) = 0,4$$

$$\theta_1 = \theta_1 - \alpha\frac{\partial J(\theta)}{\partial \theta_1} = 0.26-(0.1).(-2.6) = 0,52$$

3

$$\theta_0 = \theta_0 - \alpha\frac{\partial J(\theta)}{\partial \theta_0} = 0.4-(0.1).(-2) = 0.6$$

$$\theta_1 = \theta_1 - \alpha\frac{\partial J(\theta)}{\partial \theta_1} = 0,52-(0.1).(-2.6) = 0.78$$