$$\frac{\partial E}{\partial m_2} = -\pi i (y_i - m_1 \pi i^2 - m_2 \pi i - c)$$

$$= -7.6^{2}(157 - 5(7.6)^{2} - 5 \times 7.6 - 90)$$

$$= -(7.6)^{2}(157 - 288.8 - 38 - 20)$$

$$= -(157 - 5 \times 7.6^2 - 5 \times 7.6 - 10)$$

```
m_1 = m_1 - \eta \times \delta m_1
  = 5-0.01 × 10962.848 = 104.62848
 m2= m2-1 x Dm2
     = 5-0.01×142.48 = 3.5752
  C=C-NXDC=20-0.01×189.8 = 18.102
Sample-2 - m1 = 20, m2 = 20, (I)
 DM1= - 722 (42-M1722-M272-C)
      = -7.1^{2}(174 - 20(7.1)^{2} - 20(7.1) - 70)
       = -7.12 (174-1008.2-142-10)
        = -7:1 (18/4- -7.12 (-986.2) = 49,714.342
 0m2 = -7.1(174-20(7.1)2-20(7.1)-10)
     = -7.1(-986.2) = 7002.02
  DC = - (42 - m1×2-m2×2-c)
       = - (174 - 49714.342(7.1)2- (2002.02)(7.1) - 20)
       2 - (174-2506082.74-49714.342=20)
        = 270169.82
  m1 = m1-1 × Dm1 = 20-0.01× (49,714.342) = 4+7.1454
 m2 = m2 - N x sm2 = 20 - 0.01 x (2002.02) = -50.0202
```

BL = C-NXDC = 10-0.01 × (270169.082) = -2691.690