```
Assignment - 5
Iteration -1
7 = 0.1, m=1, c=-1
de = -![((ya, -mx, -c) xx,)
+ [(yaz -mxz-()xxz)+[(yaz-mxz-1)*xz)]
= -1 [ ((577.8-(1)(75.1)+1)* 75.1)+
      ((577-(1)(74-3)+1)*74-3)+
     ((510.9 -(1) (B8.7)+1) 88.7)]
    2 -59056.31
\frac{\partial F}{\partial c} = -\frac{1}{2} \left[ \left( y_{\alpha_1} - m_{2c_1} - c \right) + \left( y_{\alpha_2} - m_{2c_2} - c \right) + \right]
           ( y a 3 - m x 3 - 9)
       = -! [503. 7+503.7+483.2]
        = -745.3
 Dm = - n dE = - (0.1) (-59056-31)
                  = 5905.631
 D(=-118.3)=74.53
m= 1 x 5905.631 = 5906.63)
     -1+74.53 = 73.53
```

Iteration -2 m = 5906.631, (= 73.83  $\frac{\partial E}{\partial r} = -\frac{1}{2} \left[ \left( \left( 577.8 - \left( 7906.631 \right) \left( 75.1 \right) - 73.53 \right) \right]$ # 75-1) + (1577 - (5906-63) ) (74-3) - 73.53) \* 74-3) + ({ ( 70.9 - ( 7906.631) (88.7) - 73.53) \* 88-7)]  $= -\frac{1}{2} \left[ -112273085 - 857 \right] = 50136542 - 928$ JE = - { (577.8 - [5906,631) (75.1) - 73:53) + (577-(5906.631)(74.3) -73.53) + (570.9 - (5906.631) (88.7) - 73.53)] = - 1 [-1404863.73]] = 702431.865 Sm = - (0-1) (56136542-928) = -5613654.293  $\delta(=-(0.1)(702431.865)=-70243.187$ m = 5906-631 + (-5613654-293) = -5607747.662 c = 13.53-70243.187 = -70169.657