Assignment 2 Find the global minimum point and value for Runction - P(1/4) = 1 12+42+10 -> Do manual calculations for a iterations. step1: 7=-1, y=1, n=0.1 1epcohs=2 step2: iter=1, sty3: 2x =2(-1)=-2 $\frac{\partial F}{\partial y} = 2(1) = 2$ step 4: DX = - n dF = -(0·1)(-2)=0°2 Ay = - 254 =-(01)(2)=-0.2 step 5: $\gamma = 2+\Delta \lambda = -1+0.2=-10.8$ y=y+dy=1-0.2=0.8 step 6: iter=iter+1=1+117-2 step7: if liter > epions) que go to next step. False go to step 2

Step 3:
$$\frac{\partial f}{\partial x} = 2x = 2(-08) = -1.6$$

Step 4: $\Delta x = -0.000$
 $= -(0.1)(-1.6) = 0.11$
 $\Delta y = -0.000$
 $= -(0.1)(1.6) = -0.11$

Step 5: $x = x + \Delta x$
 $= -0.000$

Step 6: $\frac{1}{1} + \frac{1}{1} + \frac{1}{1}$