Assignment - 3A f(1,y)=31+5e=y+10 N=0.01, N=2, y=3, epochs=100, iter=1 Iteration-1: of 1 = 6x = 6x2 = 12 of 1y=3 =-5xe-3 =-6.24 AN = - nof | n=2 = - (0.01)(12) = 0.12 Ay = n. 3+ 1/=2 = (0.01)-(0.24)=0.0024 N= n+An=2-0.12=1.88 y= y+2j.=3+0.0024=3.0024 Iteration-2: of 1 = 1.88 = (6)(1.88) = 11.28 of 14=3.002=-5xe-7.002=-0.24 $\Delta x = - \frac{\partial f}{\partial x} |_{x=2} = - \frac{(0.01)(1.28)}{(0.01)(1.28)} = 0.1128$ Dy = -n of 1y=3.002 = -(0.01) (-0.24) =0.0024 X= X+AX=1.88.8-0.1128-1.76 y=y+4y=3.002+0.0024=3.004