## Assignment-6A

Xia y:a Batchs 1180 221900 2570 538000 Batche 770 180000 604000 stepl: (M;a,y;a), n=0.01, epochs=1, m=-1, c=-1, itev=1, calculating gradient w.r.t m. 2m = 1/2 ps & [(2, - whid- c) ( mid)) = -1/6 £ [(yi9-mn; 9-c) (n;a)] = -1/5 [[221900-(-1)(1180)-(-1)] (1180) + (538000 - (-1) (2570) - (-1)] (2570) / =-1/2 [6221900+ 1180+1) (1180) + (538000+2570+1) (2570) = -1/2[223081(1180) + 540571(2570)] = - 1/2 [263235580+1389267470] = 1/2 (1652503050) - - 826251525

$$\frac{3E}{8c} = -\frac{1}{165} \frac{8}{121} (9.9 - mv.^{5} - c)$$

$$= -\frac{1}{2} (2230814540571)$$

$$= -\frac{1}{2} (763652)$$

$$= -381826$$

$$\Delta m = -9 \frac{\Delta E}{8m}$$

$$= -(0.01)(-326251525)$$

$$= 8969515.25$$

$$\Delta C = -9 \cdot \frac{\Delta E}{80}$$

$$= -(0.01)(-381826)$$

$$= 3818.26$$

$$m = m + \Delta m$$

$$= -1 + 8969515.25$$

$$= 8262514.25$$

$$\Delta C = C + \Delta C$$

$$= -1 + 3818.2($$

$$= 3817.26$$

$$botch = botch + 1 = 0$$

$$Batch:$$

$$N'a = 3'a$$

$$+70 = 180600$$

$$+180 = 604000$$

$$\frac{\Delta E}{80} = -\frac{1}{160} = \frac{1}{160} = \frac{1}$$