Ex 1 (4 pts). Logistic Regression

$$\begin{array}{c} k=2 \; ; \; kv=\left[0 \; 0\right] \; ; \; b=0 \\ \\ \frac{4!\; GPA_1!}{1+e^{4!M7_1!}} \; ; \; \; fol \; \; \pi:\left[1 \; 1\right], \; \frac{(1)(1)}{1+e^{\circ}} = 0.5 \\ \\ fol \; \; \chi=\left[0.9 \; 0.875\right], \; \frac{(1)(0.9)}{1+e^{\circ}} = 0.45 \\ \\ \frac{1}{1+e^{\circ}} \; \\ \\ fol \; \; \chi=\left[0.7 \; 0.875\right], \; \frac{(-1)(0.7)}{1+e^{\circ}} = 0.35 \\ \\ \frac{1}{1+e^{\circ}} \; \\ \\ \frac{4!\; GRE_1!}{1+e^{4!M7_1!}} \; ; \; fol \; \; \chi=\left[0.9 \; 0.875\right], \; \frac{(1)(0.87_1)}{1+e^{\circ}} = 0.4375 \\ \\ \frac{1}{1+e^{\circ}} \; \\ \frac{1}{1+e^{\circ}} \; \\ \\ \frac{1}{1+e^{\circ}} \; \\ \\ \frac{1}{1+e^{\circ}} \; \\ \frac{1$$

E.=
$$\ln (1 + e^{-\frac{1}{3} \ln x_{1}})$$
:

for $x = [0.9]$, $E = \ln (1 + e^{-\frac{1}{3} \ln x_{1}}) = 0.693$
 $x = [0.9]$, $E = 0.693$
 $x = [0.9]$, $E = 0.693$
 $x = [0.7]$, $E = 0.693$
 $x = [0.6]$, $E = 0.693$
 $x = [0.6]$, $E = 0.693$
 $x = [0.6]$, $E = 0.693$
 $x = [0.7]$, $x = [1]$, $\frac{(1)(1)}{1+1} = 0.5$
 $y = 1$, $y = [0.7]$, $y = [1]$, $y =$

$$M_1 = mean \left(\frac{yGPA}{1+e^{yW7}} \right) = \frac{0.5+0.45+0.45-0.35-0.3}{5} = \frac{0.15}{5}$$
 $M_2 = mean \left(\frac{yGRE}{1+e^{yW7}} \right) = \frac{0.5+0.5+0.4375-0.375-0.4375}{5} = \frac{0.125}{5}$
 $b = mean \left(\frac{yDummy}{1+e^{yW7}} \right) = \frac{0.5+0.5+0.5-0.5-0.5}{5} = \frac{0.1}{5}$

		y, GPA;	4; GREi Heyi Wa;	y. Dunny;	E=In(1+e)
3',=[1	j	0.5	o·5	0.5	0.693
7:=[0.9	ij	0.45	0.5	0.5	0.693
7;= [o.9	6.875	0.45	0.4375	0.5	0.693
7;=[0.7		- 0.3.5	-0.375	-0.5	0.693
7;= [0.6		- 0.3	- 0.4375	-0.5	0.693

effer 1st iteration: