$$X \rightarrow Number of Red balls$$

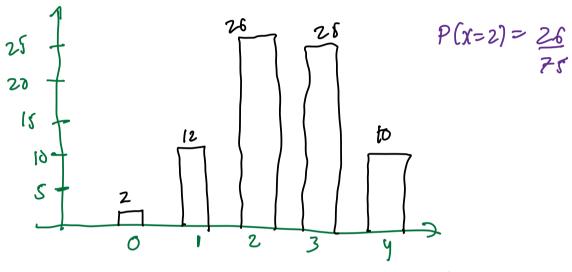
$$0000 \rightarrow X=3 \rightarrow Rondom Variab$$

$$0000 \rightarrow X=2$$

dol	f id	Income	Logs	Dependent	Detavlt
7-	~				785
	_			_ /	No
/ ·	_	_		_]	NO

X=1 =) if defaulted X=0 =) if not defaults

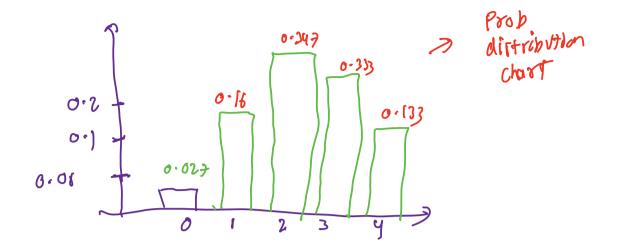
$\chi = 0$	X = 1	X=Z	X=3	X=4
4 Blue	3 Blue	2 Red	18108	OB OR
0 Red	1 Red	2814	3 red	4 Red
0000	0000	00 00	0000	0000
	0 0 0 0	00 00	0000	
	0000	000 b	0000	
	0000	0009	0000	
		0000		
	\	v 08 00 l		



P (x=4)	2	10
		75

X	Prob
0	0.027
(1	0.16
2	0.34 7
3	0.333
4 1	0.133

3 bistripotion



Aug # red balls => 2-385

=> X= X1, X2, X3, X4, X1, --, XA

EV= $x_1 * P(x=x_1) + x_2 * P(x=x_2) + x_3 * P(x=x_3) + - - - - x_1 * P(x=x_4)$

= 0 ≠ 0.027 + 1 × 0.16 + 2 × 6.347 + 3 × 0.333 + 4 × 0.13 = 2.385

X → +150 , -10

P(x=150) = P(4 red balls) = 0.133

 $P(X = -10) = P(0_{0R}|_{0R}2_{0R}3$

= 0.867

EV= $x_1 * P(x=x_1) + x_2 * P(x=x_2) + x_3 * P(x=x_3) + - - - - x_1 * P(x=x_3)$

Without Experimens

P(I Red ball in I trad) =
$$\frac{3}{3}$$
 = 0%
P(E, AND E2) = P(G) $+P(G)$

09 2 Blue 3 red Bill
$$2/5 = B$$

0.4 * 0.6 * 0.6 * 0.6 3/5 = B

$$P(0000) \Rightarrow 0.4 \times 0.6 \times 0.6 \times 0.6$$

$$P(0000) \Rightarrow 0.0864$$

$$P(0000) = 0.6 \times 0.4 \times 0.6 \times 0.6$$

$$= 0.0864$$

$$P(0000) = 0.0864$$

$$P(0000) = 0.0864$$

$$P(X=3) = 4 \times 0.0864$$

$$= 0.3456$$

Break: 10: 49 PM

$\chi = 0$. X = 1	x=2	X=3	X=y
4 Blue	3 Blue	2 Red	18100	OBÍVE
0 Red	1 Red	2814	3 red	4 Red
0000	0000	00 00	0000	0000
	0 0 0 0	00 00	0000	
	0000	σοο δ	0000	
	0000	0 00 9	0000	
	(0000		
	\	v 00 00 l		