	Rollno: - 102103280  Rollno: - 102103280  3C010
	Parameter Selimation Assignment
	CONTROL SERVICE TO LANGE OF THE SERVICE OF THE SERV
-	as normal distribution, mean > 81, variance = 02
1	$f(m) = \frac{-(m-u)^2}{2u-2}$
	$f(n) = \frac{-(n-u)^2}{\sqrt{R\pi v^2}}$
-	Joint density of (MI) 12,73, - Xm) is
	1 (0 0 x x x x )= 7 1 0 300
	(O1, O2; X1, X2-Xn) = A 1 e 202
	taking lig on both sides
1	$     \ln \left[ L(0_1, 0_2) \right] = \ln \left( \left( 2\pi \sigma_2 \right)^{n/2} \cdot e^{-\frac{\epsilon}{2} \left( \pi_1 - \sigma_1 \right)^2} \right) $
	$ln[L(0_1,0_2)] = -\frac{h}{2} ln'(2\pi 0_2) - \frac{1}{2} 2(\pi_1 - \alpha_1)^2$
	(Oi) défenentiale en [L(O1,O2)] wit to O1.
	<u> dlnl - 1 2 (ni.ai)=0</u>
	0) = Ezi - Sample mean
	(man) = 0 1 = (n-1)
	(2) differentiate en [ De L (Q1,Q2) ] wit to Q2
1	$\frac{\partial \ln 1 = -n}{\partial \alpha_2} + \frac{1}{2\alpha_2} \ge (n_i - \alpha_i)^2 = 0.$
1	100-15 (Di-0)2 1 1010
	02=15 (ni-01)2 - variance
	is MIE at M. that 86 X.
	" MIE of Q1 to PS X.  " MIE of Q2 (C Vovy(X)
	4



B(m,0) -> behomeal distribution m > no of the trails 0-(0,1) f(n) = mc pr (1-P)m-2 John donsity, L(0; n1,2,-2m) = # P(ni|m,p) L(6)= 1 (nc, 02, (1-0) m-ne taking log on both sides In (10)) = 4 log ("cm) + 2 7/ loga + 2 (m- 2/) log(1-0) differentiate w.r.t a Jun (L) = 1 = xi+1 = (m-7i)(-1)=0 1 2xi = 1 5 (m-xi) (1-0) & xi = 0 & (m-xi) (m3) 0 = 1X3 Co = EXIT = mean MILE of a for B (m, a) is X