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NAME - PULKIT ARORA
Rollm - 102103267
Group -> 3 COLO

PARAMETER ESTIMATION Assingment

from a Normal Population with Parameters mean= 0, and variance = 0, find the Manmum diklehood estimation of These Two Parameters

 $f(x) = \frac{(1-u)^2}{2\sigma^2}$ (: PDf of Normal distribution)

 $\frac{1}{\sqrt{n^2 - n^2}} = \frac{(n^2 - n^2)^2}{\sqrt{n^2 - n^2}}$

 $\frac{d}{dt} \left(x_i \right) = \frac{1}{2000} = \frac{2000}{2000}$ Ukelihood function

L(0,02) = T 1 e 202

$$L(0_{1}, 0_{2}) = \frac{\pi}{L}(0_{3}) \frac{\pi}{L} \frac{\pi$$

1 = n + 1 / (no - 0,) = 0 0, -1 = (n; -0,)2 From (3) O1 = 7m 02 = 1 2 (no - nn) detailbution where $O \in \mathcal{O} = (O, I)$ is unknown and in if a known the integer compute value of 8 xing MIE B(n) = 1/2 PM (1-P) (PDF. of Binomial Distribution) leve, n= m , p=0 b(x)= m + (1-0) + f(xi)= m (1-0) - ni Liklehood Function $L(m,0) = \pi f(n^{\circ})$ $L(m,0) = \pi f(n^{\circ})$ $L(m,0) = \pi f(n^{\circ})$ $L(m,0) = \pi f(n^{\circ})$ $L(m,0) = \pi f(n^{\circ})$ ((m,0) = T (n. 0 (1-0) mn - 2. mi Taky log Both Sidep.

