Name - Dingam Poll. No -> \$02103142 PARAMETER EVALUATION Group -> 3 C 05 Assignment - 6 X1, X2, X3 --- Xn = dample of size 1  $L(X_1, X_2, X_3 --- X_n) = f(x_1) \cdot f(x_2) --- f(x_n)$  $= \frac{1}{\sqrt{2\pi c^2}} - \frac{(2(1-H)^2)}{2c^2}.$   $= \sqrt{\frac{1}{2\pi c^2}} - \frac{(2(2-H)^2)}{2c^2}$ taking In on both sides  $ln(L) = -n ln(2\pi c^2) + \sum_{i=1}^{n} (2\pi c^2) - 0$ take partiel derivative w.r.t 4 of

X= N hence  $O_1 = \overline{x}$  is therefore sample mean Daking derivative w.r. to 62/9/99

Role No -> 102103142 Name - Divyam yroup - 3005 Binomial distribution > n Coci 0 (1-0) L = Tr n Cai Dai (1-0) n-xi i=1 log on both sides  $\log L = \sum_{i=1}^{n} \left( \log(^{n} \operatorname{Cox}_{i}) + \log 0^{\frac{n}{2}} + \log(1-0) \right)$  $log L = \sum_{j=1}^{\infty} log^{(n)} Cxij + log 0 \sum_{j=1}^{\infty} xi + log (1-0) \sum_{j=1}^{\infty} (n-2j)$ differentiateurt 0