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	Gray- 30010
	Parameter Estimation Assingment
QI	let (4, 4,) be a sandom sample of size n taken
	from a wormal population with parameters mean = 0, and
	variance-os find the manumum liblehood estimate
	of these two Paramotes
Sel	$\beta(u) = \frac{(u-u)^2}{e^{-d\sigma^2}}$ ("PDf of Normal distubution)
	$\int \sqrt{\sqrt{2}} dt dt$
	41=01 , 0=02
18	
	$(\chi-\chi)^2$
	$b(x_i) = 1 e^{2a^2}$
	Satir
	- (n-0,)
	d(20) = 1 e 20/2
	STT O2
	Uklehood Function
	n - (n: -01)
	clo, 202) = [_ e 202
	f = f = f = f = f = f = f = f = f = f =

· = 1 + 1 = (x2 - 0,) = 0 02 = 1 2 (n:-0,)2 From 3 Of = 7/n 02 = 1 2 (nº - nn) distribution where $O \in \mathcal{D} = (O,1)$ is sunknown and 'm' if a known the integer compute value of O 1xing MIE Ed: B(n) = 1/2 pm (1-p) (PDF. of Binomial Distribution) here, n= m g p= 0 b(x)= m o (1-0) » f(xi)= m ni 0 (1-0) aklihood Function $L(m,0) = \frac{\pi}{\pi} F(n^{\circ})$ $L(m,0) = \frac{\pi}{\pi} m_{(n,0)} O^{n^{\circ}}(1-0)^{m-n^{\circ}}$ $L(m,0) = \frac{\pi}{\pi} m_{(n,0)} O^{n^{\circ}}(1-0)^{m-n^{\circ}}$ ((m,0) = TT (n. 00) (1-0) 12, 21 Taking log Both Siclep.

