```
Let (x1, x2, -xn) be sample of size 'n' token
     Mean-\theta_1 variance -\theta_2

L(\theta_1, \theta_2) = \frac{\pi}{1-1} \frac{1}{\sqrt{2\pi\theta_2}} e^{-(ui-\theta_1)^2/2\theta_2}
      leg L(01, 02) = -11 leg (2π 02) - [ Σ(νι-01) 2
         for 01 diff log (L (D1,O2)) w.x.t 01 & set it to zur
            \frac{\partial \log(L)}{\partial \sigma_1} = \frac{1}{2} \frac{2}{2} \left( \kappa c - \sigma_1 \right) = 0
                       OI = I E mi
                      MLE of SI 10 sample mean
                    10 ~ 02 diff. w. Lt 82 & put guro.
                            02 = \frac{1}{2} \frac{M}{2} \left( \frac{W}{W} - \frac{Q}{Q} \right)^{2}
1) Binomial distribution
            \theta = (0,1) prob. of success
                  Lo = 11 1 (xi n, 0)
                        1 ( mn ( 0 ) = ncx . 6x . (1-0) m-11
                   PMF
                        L(0) = # (mcxc), 0m, (10)m-ui
```

	3CO8	Anshpreet singh		(i) for (i)	
m	151 CEI	$= \frac{1-i}{i}$ $= \frac{1-i}{i}$ $= \frac{1-i}{i}$ $= \frac{1-i}{i}$ $= \frac{1-i}{i}$	Muchiphy by O(1-0))=1 1 -1 -1 = (m-ui) = 0 i=1 (-0 i=1 (m-ui) =	PAGE NO.: