-> If we repeat 'n' Bernauli trails in an experiment Then that random variable is called Binomial Random Variable

-> For Binomial, P'is constant accross all The trails.

-> Each trial is independent on another trail.

we derived the probability mass function for this distribution is

$$L(x=a) = u^{c\lambda}(b)(d)$$
There $u^{c\lambda} = \frac{(u-a)!a!}{u!}$

$$u^{CA} = \frac{(M-A)!A!}{M!}$$

$$E(x) = NP$$

$$V(x) = NP(1-P)$$

Based on the Situations/Scenarios we need to understand what are probabilities is required to calculate ise either

$$\mathbb{O} \in \mathbf{kactly} \longrightarrow \mathbf{p}(\mathbf{x} = \mathbf{z})$$

$$\bigcirc$$
 Atleast \longrightarrow P(\times 7/ \circ)