2) if k=0 p(x=0) = p(1-p) = 1-p

Conditions of Bernoulli dist

1) NO et brial should be finite 2) Each trial should be independent Pass

(3) Only two possible outcome fail

(4) Prob et each output should be same in every fial.

- -> tossiy a coin
- > Someone has committed a frank or met
- getty a six or not
- > pas fail
- win for hot
- 7 lyboner Conveytor
- Burnrah bowle 6 balls at wicket, with prob of orb at hitting the stump with each ball. What is prob of not hitting a wicket?
 - p(hithip a Wicket) = 0.6 > Benoulli distr. p (hittig hat a wicket) = 1-0.6 = 0.4
 - mean and Variance of Bernoulli distr.

 p

 p

 p(1-p)

Mean

$$E(x) = \sum_{i=1}^{K} \chi P(x)$$

K Can take two values

$$-\chi = 1 + \chi = 0$$

$$= 0.9 \Rightarrow b$$

$$b(x=0) = 0.7 = 0$$

0 2 1

$$\bigcirc Var(x) \Rightarrow E(x^2) - E(x)$$

 $E(x^2) = E(x)$

$$= ||^{2} \times || + 0 \times (|-||)$$

$$= ||^{2} \times || + 0 \times (|-|||)$$

$$= ||^{2} \times || + 0 \times (|-|||)$$