queeton 5

we know that,  $P(X|Y) = \frac{P(X|Y)}{P(Y)}.$ 

$$= \frac{P(B,A,C)}{P(B,C)}$$

$$= \frac{P(A,B,C)}{P(B,C)}$$

Proved

The propability of the coin being four F probability of the coin being double haded 1 hence, the mixture coefficient is M= { F , I be with probable head { 0.5, 1}. Suppose, the coin is tossed in times and for the coin to have a more chance to be clouble head.  $\frac{1}{1+F} (1)^{n} > \left(\frac{1}{2}\right)^{n} \left(\frac{F}{1+F}\right)$ 2 P > F (14F) ire. nbg2 > log F i.e. n>logf