Sol^n :-

P(the witness see blue | the Car is blue)
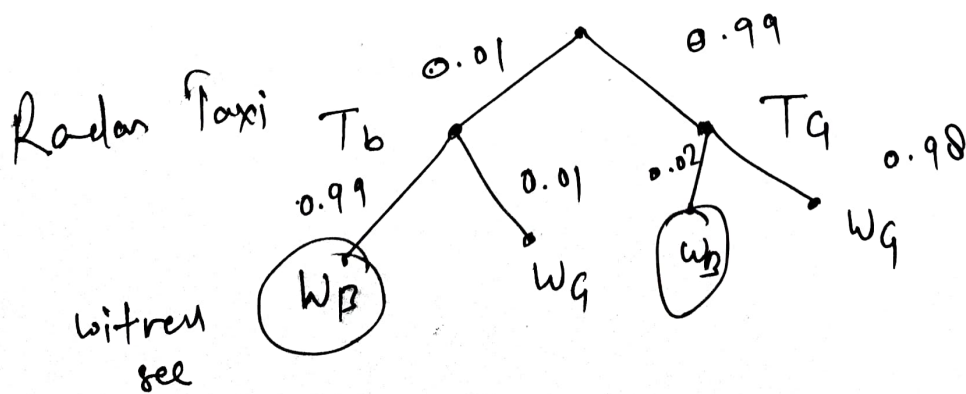
P(the Car is blue | the witness see blue)

Let W_b = " witness see a blue taxi
       W_g = " the witness see a green car '

       T_b = " Taxi is blue'

       T_g = " Taxi is green'

$$P(T_b | W_b) = \frac{P(W_b | T_b) \cdot P(T_b)}{T(W_b)}$$

$$P(T_b) = 0.01 \qquad P(T_g) = 0.99$$

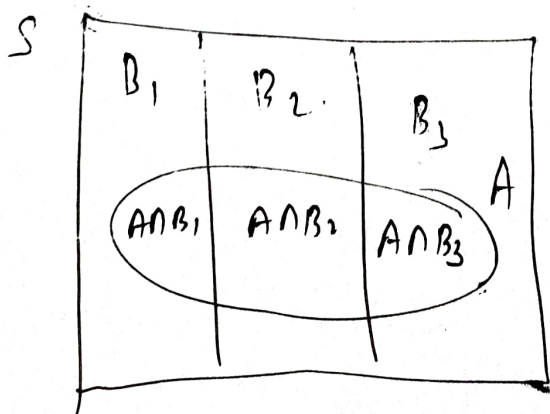$$P(W_b | T_b) = 0.99 \qquad P(W_b | T_g) = 0.02$$

$$P(W_b) = P(W_b | T_b) \cdot P(T_b) + P(W_b | T_b) \, P(T_g)$$

$$= 0.99 \times 0.01 + 0.02 \times 0.99$$

$$= .99 \times 0.03$$

$$\boxed{P(T_b | W_b) = \frac{0.99 \times 0.01}{0.99 \times 0.03} = \frac{1}{3}}$$

Total probability:-

Mutually Exclusive

$$A = (A \cap B_1) \cup (A \cap B_2) \cup (A \cap B_3)$$