



## Assignment - 12

$$f. P(\text{sunny} / \text{yes}) = \frac{P(\text{sunny} \cap \text{yes})}{P(\text{yes})} = \frac{3}{9} = \frac{1}{3}$$

$$P(\text{sunny}) = \frac{5}{14}$$

$$P(\text{yes}) = \frac{9}{14}$$

$$P(\text{yes} / \text{sunny}) = \frac{P(\text{sunny} / \text{yes}) \cdot P(\text{yes})}{P(\text{sunny})}$$

$$= \frac{\frac{1}{3} \times \frac{9}{14}}{\frac{5}{14}} = \frac{3}{5}$$