$P(C)$: $P(\text{buy\_computer} = \text{"yes"}) = \frac{9}{14} = 0.643$

$P(\text{buy-computer} = \text{"NO"}) = \frac{5}{14} = 0.357$

$P(X|C_i)$

$P(\text{age} = \text{"31..40"} | \text{buy\_computer} = \text{"yes"}) = \frac{4}{9} = 0.444$

$P(\text{age} = \text{"31..40"} | \text{buy\_computer} = \text{"No"}) = \frac{0}{5} = 0$

$\times$ اللي تحت Laplacian correction أبو NO $\frac{1}{5} = 0.2$

$$\text{Prob}(\text{age} = 31...40) = 0 + 1 = \boxed{1}$$

$P(\text{income} = \text{"high"} | \text{buy\_computer} = \text{"yes"}) = \frac{2}{9} = 0.222$

$P(\text{income} = \text{"high"} | \text{buy\_computer} = \text{"No"}) = \frac{2}{5} = 0.4$

$P(\text{student} = \text{"yes"} | \text{buy\_computer} = \text{"yes"}) = \frac{6}{9} = 0.667$

$P(\text{student} = \text{"yes"} | \text{buy\_computer} = \text{"No"}) = \frac{1}{5} = 0.2$

$$P(\text{credit\_rating} = \text{"fair"} \mid \text{buy\_computer} = \text{"yes"}) = \frac{6}{9} = 0.667$$

$$P(\text{credit\_rating} = \text{"fair"} \mid \text{buy\_computer} = \text{"No"}) = \frac{2}{5} = 0.4$$

$$P(X|C_i) = P(x \mid \text{buys\_computer} = \text{"yes"}) = 0.444 \times 0.222 \times 0.667$$
$$\times 0.667$$
$$= 0.044$$

$$P(X|C_i) = P(x \mid \text{buys\_computer} = \text{"No"}) = 0.2 \times 0.4 \times 0.2 \times 0.4$$
$$= 0.0064$$

$$P(X|C_i) * P(C_i) : \quad 0.044 \times 0.643 = 0.028 \quad - \text{yes}$$

$$0.0064 \times 0.357 = 0.00228 \quad - \text{No}$$