Input Age 31-40, Income = high, student = yes, Fair

P(buys_computer = yes) = 9/14 = 0.643

P(buys_computer = No) = 5/14 = 0.357

P(age = 31-40 | buy_com = yes) = 4/9 = 0.444

P(age = 31-40 | buy_com = No) = 0/5 = 0 $+\frac{1}{8} \approx 0.125$: 0.125

P(high | buy_com = yes) : 2/9 = 0.222

P(high | buy_com = No) : 2/5 = 0.4

P(stu = yes | buy_com = yes) : 6/9 = 0.667

P(stu = yes | buy_com = no) : 1/5 = 0.2

P(cr = fair | buy_com = yes) : 6/9 = 0.667

P(cr = fair | buy_com = No) : 2/5 = 0.4

P(X|Ci) : P(X | buy_com = yes) = 0.444 · 0.222 · 0.667 · 0.667 = 0.0438

P(X|Ci) : P(X | buy_com = No) = 0.125 · 0.4 · 0.2 · 0.4 = 0.004

P(X|Ci) · P(Ci) = 0.0438 · 0.643 = 0.0281 (yes)

P(X|Ci) · P(Ci) = 0.004 · 0.357 = 0.001428 (No)

Therefore, X belongs to class ("buys_computer = yes")