	ASSIGNMENT-12
ØI→	What is the perobability of a posson playing when the weath is surry? Find P(Yes/Surry).
	Weather Play
	Sunny No Owncast Yes Rainy Yes
	Rainy Yes Sunny Yes Sunny Yes Ownerest Yes
	Rainy No Rainy No Sundy Xes Rainy Yes
	dunit 110
	Overcast Xes Overcast Xes Rainy No.
Sd1→	$P(Sunny) = 5$ , $P(Yes) = 9$ , $P(Sunny \cap Yes) = 3$
	$\frac{1}{2} P(Sunny/Yes) = P(Sunny \cap Yes) = \frac{3}{14} = 1$ $P(Yes) = \frac{9}{14} = 3$
	According to Baye's theorem &-
	$P(X_8/S_{unity}) = P(Y_{ex}) \cdot P(S_{unity}/Y_{ex}) = \frac{9 \times 1}{14} = \frac{3}{5}$ $P(S_{unity}) = \frac{5}{14}$
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