

## **Problem 2: Car theft problem**

Consider the following car theft data set, in which we have 3 attributes: Color, Type, Origin, and the subject, stolen can be either yes or no. Based on the following 10 instances, apply Naïve Bayes classifier to classify a new example with the values Red, Family, Domestic.

No.	Color	Type	Origin	Stolen?
1	Red	Sports	Domestic	Yes
2	Red	Sports	Domestic	No
3	Red	Sports	Domestic	Yes
4	Yellow	Sports	Domestic	No
5	Yellow	Sports	Imported	Yes
6	Yellow	Family	Imported	No
7	Yellow	Family	Imported	Yes
8	Yellow	Family	Domestic	No
9	Red	Family	Imported	No
10	Red	Sports	Imported	Yes