	Ankit Ro	4	1906534	Classmate	
Answes	1) Color	Type	Origin	Stolen	
	Red	Sports	Domestic	Yes	
	Red	Sports	Domestic	No	
	Red	Sports	Domestic	Yes	
	Yellow	SBOOTS	Domestic	No.	
	Yellow	Sports	Imported	Yes	
	Yellow	SUV	Imposted	NO	
	Yellow	SUV	Imported	Yes	
	Yellow	SUV	Domestro	No	
	Red	SUV	Imposted	NO	
	Red	Sports	Impo sted	Yes	
	$(Yellow, SUV, Domestic) \rightarrow (Yes or NO)$ $P(Yes) = 5 = 0.5$ $10$ $P(NO) = 5 = 0.5$ $10$ $P(y(n, 0.0, Mn)) = P(N/y) \cdot P(N_2/y) \cdot P(N_2/y)$ $P(M_1) \cdot P(MO) \cdot (PNx)$				
	Loba Colon Yes No				
	Red 3/5 2/5				
	Yellow 2/5 3/5				
	000000 p	30.32	20		
	Manager Manager	SCHOOL NEWSCHOOL			
	er ala			_	

Ankit Raj	1906534- Date Page			
Type / Yes	INO			
S\$0875 41/6	2/6			
SUV /4	3/4			
Origin Yes	No			
Domeotic 2/5	3/5			
Imposted 3/5	2/5			
for (Red, SUV, 1 (P=iges) P(Red/ges)	P(SUV/yes) P(Domestro/yes)			
$\frac{1}{2} \times \frac{3}{5} \times \frac{1}{4} \times \frac{2}{5}$	The same			
0.03				
(P=N0) P(Red/N0) P(SUV/N0) P(Domestic/N0) => 1 x 2 x 3 x 2 => 2 x 5 x 4 x 5				
=> 0.06	Since 0.0620.03 it gets Classified as 100.03			

	Ankeit Raj 1906534 Date Page.
	for (yellow, SUV, Domestic)
	Plyes) P(yellow/yes) {RSUV/yes) P(Domestrc/yes)
5)	1 x 2 x 1 x 2 2 x 4 x 5
=>	
	P(No) P(yellow/+ No) P(SUV/NO) P(Domestic/No)
>>	1x3x3x3
=)	0.135
	Since 0.135 > 0.02 it gets Classified as 66 No."