Naive Bayes Classifier

	Day	Outlook	Temperature	Humidity	Wind	PlayTennis	
	DI	Sunny	Hot	High	Weak	No	
	D2	Sunny	Hot	High	Strong	No	
	D3	Overcast	Hot	High	Weak	Yes	
	D4	Rain	Mild	High	Weak	Yes	
	D5	Rain	Cool	Normal	Weak	Yes	
	D6	Rain	Cool	Normal	Strong	No	
	D7	Overcast	Cool	Normal	Strong	Yes	
	D8	Sunny	Mild	High &	Weak	No	
	D9	Sunny	Cool	Normal	Weak	Yes	
	D10	Rain	Mild	Normal	Weak	Yes	
	D11	Sunny	Mild	Normal	Strong	Yes	
	D12	Overcast	Mild	High	Strong	Yes	
	D13	Overcast	Hot	Normal	Weak	Yes	
	D14	Rain	Mild	High	Strong	No	

outlook Y N	outlook Y N
Sunny 2/9 3/5	Sanny 0.22 0.6
overcast 49 0	overland 0.44 0
rain 3/9 2/s	rain 0.13 ory
Humidity Y N	Mumidity Y N
high 3/9 1/s	high 0-23 0-8
Humidity Y N high 3/9 4/5 norrmal 6/9 4/5	normal 0.66 0-2
Tempresture Y N	Tempreature Y N
hot 2/9 2/s	hot 0.22 0.4
hot 2/9 2/5 mild 4/9 2/5	.11
	mild
<u>Cool</u> <u>49 1/s</u>	mild 0.44 0.4 (00) 0.23 0.2
(00) 49 1/5	(00) 0.13 0.2
(00) 3/9 1/s Windy Y N Strong 3/9 3/s	Windy Y N Strong 0-33 0-6

New Instance 1 - < Sunny, cool, high, strong >								
For Yes !- (0.22 x 0.33 x 0.3	12 x 0.23) x 0.64 = 5.05							
For No 1- (0.6 x 0.2 x 0.8	X 6-6) X0-34 = 0.020							
we have to normalize these are equivalent remove the deminata	these probabilities because probabilites because we Ir term							
Yes = Yes No	= No YestNo							
Yes = <u>5.05</u> = 0.996 5.07	No = 0.020 = 0.003							
Lo Yes is greater so	Clasify it as Yes							