DS Assignn	charlotte Seane
Attribute	1nformation Gain
Sky	0.811
Airtemp	0) 100
Humidity	
Wind	0.000
Water	0.311
Forecast	
Calculatio	ns:
Using Entre	py=-PologaPo-PologaPo & Entropy (S,A)=Entropy(S) - Z1 151 Chiropy(SV) vevalue(A) vevalue(A)
IN THIS COO	le, "Yes" is the positive, "No" is the negative
	et shows 314 "Yes" and 14 "No". Therefore we get
	= -3/4 log_(314) - 44log_(14) = 0.811
Criticipy (8)	Jac 1
Fox Codings	s. sky): values (sky) = Esmny, rainys
C-T2	+,1-J Sanny=[3+,0-] Stainy=[0+,1-]
3-(3	(S, Sky)= 0.811 - 3/4 Entropy (Soung) - 1/4 Entropy (Srainy)
so Gain	= 0.811-314(-110g2(1)-0.10g2(0))-14 (0.10g2(0)-110g2(1))
	= 0.811
1 10 10	Sularan Cale
For Gain(s, A	tirtemp): Values (Mirtemp) = EWarm, Cona's
S=[3+,	1-] Swarm = [3t, 0-] Scord = [0+, 1-]
so Gain	s, Airtemp= [0.811] (because calculation is some as Gain(s, sky))
For Gains	Humiaity): Values (Humiaty) = Enomal, High's
C- T3+ 1-	-7 Summal = [2+,0-] Snigh = [2+, 1-]
3-101,1	s, Humidity) = 0.811 - 1/4 (0) - 3/4 (-9/3 loga(2/3) - 1/3 loga(1/3))
50 Gain(-10100 1 1 0 miles 1 miles 0 miles
	=0.122 1 Entropy=0 since 1 positive, 0 negatives
For Gain(s,	wina). Values (wina) = Estranges
0 501	7 0 - 78+ 1-7
So. C	5. Mina) = 0.811 - 2. Entropy (Sstrong) = 0.811 - (-3/4/1092(3/4) - 1/4/1092(1/4))
00, (5) air (3	TAILOT - O'CL - CHURCH - O'CL

= 0.811 = 10