				· Po-
0:	Jeenal Mehta	DA Accionmo	ent - I 2510= NI/C B	E-IT and/
	2019140039	Dr. Fissigans	PS-0= M/H	10:14
	1/3 067	50.01		I I partol/
	Calculating all the			es
4	U	1		130107
ò	For prior probabilit	es for the	following): 0 = 11/3	SHOLA
0	0/3 6 0/	0/2 = 0	0 fo 0 = 41/8	- Stight
Attribute	Ontine Els	Lateo d'	Verglate 10.0: 11/61	
			-	1 0
Day!	3/20=015 1/20=	2/20=010	0F-0=0c/H1	Prior
		1/2 = 0.5	43=1	0/1/201019
weekday saturday		1/2 = 0.5		1/1 = 1
Sunday	1/14 = 007	9/2 = 0 smra		10/1 = 0
sunday	2/14 = 0.14	0/2 = 0	93=0	% = 0
houday			: 1 9	(.a.s
Season:			smit as = 22	C10
spring	P864/140=0.29 =	0/2=078	1 110/3 =10 WILD =	i.i
	6/14 = 0.43		0/3 = 0	
summer autumn	0/ 0	0/2 = 0		10/1=0
winter	2/14 = 0.14	4/2 = 1	2/3 = 0.67	0191 = 0
	, , , , , ,		2 2 0 X 0 X 0 E	
		·		

	IEGT. PAGE NO.:	SUBJECT:	PAGE	NO.:
- /	ROLL NO. STE: SMANDIN	ROLL N	10.: <u>'</u> STD: <u>-</u>	DIV:
Appelle The American Control	CTOPIC: 440188A DATE: MR 15	TERM:	ASSIGNMENT	NO.:
F09:			e printer and the second	
None I	-39 5/14=036 I - 1 MONNIE	2=0 10	0/3=011911	0/1:0
High	Annual Dept. (annual Control of C	2 = 0.5	1/3 = 0.33 50001	01/1 = 1
Normal		= 0:5	2/3 = 0.67	0/1=0
- Kana at an	or du prior probabilities	il. nosteri	· Ila partalu	1. 1(a.
Raine	•		0	The second second
None	5/14 = 0.36 provided 1/2	=-0/5 9671	1/3/210:33 toire	0/1 = 6
Slight	8/14=0.07 0/2	1	0/3 = 0	0/1 = 0
Heavy b	10000 14 = 0.07 at alwest 1/2	= 0.501	2/3 =0:67	1/ St. JinHA
Prior	14/20=0.70 2/20	0 = 0 10	3/20=0.15	1/20= 0-05
Probabili	43=1	1/2=0.5	4/14 = 0.44	Linhaesw
property of the control of	1.9	1/2 = 0.5	2/14 = 0.14	Saturday
Instance!	Holiday, Autumn, Norm	nal Heavy		Populs (
0 =	1/0 0 0 = 6/0	0 = 0	410 = 61H	Lynbuod
ph. desta	Case I:	•		D D
Auran 1	Class = on time			50050n:
0-1	= 0.14 x 0014 x 0.36	\$ 0007 =	10.0004439	Spring
0 = 1	0/2 = 0 - 6	0/2 = 0	6/14 = 0.43	Sommos
· ·	Case IT: 880= 2/	0 = 20	2/10 = 0.14	Moutus
0 = 0	Class = late = =	2/2:1	2/14 = 0.14	29 trico
	= 0 x 0 x 0.5 x 0.5	5 = 0		
				Frig
. O :	Case III: EEO: El	2.0=41	98.9 = HI/G	Mone
10 -	Class = Very Cate	0/2 = 0	FO OF FILE	HIGH
0	= FOOX 0.33 x 0.6			Morro
	Case IV:			Pain.
	Class = Cancelled			24014
4.1	= 0x0x0x1	= 0		14:11
		 		11001
<u>k</u>	Visitily, case 1 is stron	ng ,		1
10 - 2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		, ,	1	
***	The instance will be ca	regorized (undes eath c lo	ss.
1	On Time.			-
1				

2.	Ho: Preferred reading in gender not correlated Hi: Preferred reading in gender are correlated
	Calculating the X2 value
<u>e</u> j	= count (A = ai) x (ount (B = bj) n
	$X^{2} = (250-90)^{2} + (50-210)^{2} + (200-360)^{2} + (1000-940)^{2}$
	= 254.44 + 121.90 + 71.11 + 30.48 = 507.93
	For a 2x2 table, degree of freedom are (2-1/2-1)=1 For 1 degree of freedom, x² value needed to reject the hypothesis at 0.001 significance level is 10.828 (took from x² distribution table)
	Since the computed value is above this, we can reject the null hypothesis that gender and preferred reading are independent
	reading are independent .: We conclude that 2 attributes are correlated for the the given group
	Used the formula: $x^2 = \frac{\mathcal{E}}{\mathcal{E}} \frac{\mathcal{E}}{\mathcal{E}} \frac{(e_{ij} - e_{ij})^t}{e_{ij}}$