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Vidyavardhini's College of Engineering and Technology Department of Artificial Intelligence & Data Science

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Class:	TE	Semester:	V
Course Code:	The second secon	Course Name:	Stats
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Name of Student:	Sainath Khot	
Roll No. :	20	ANALY dissistent continues of
Assignment No.:	3	
Title of Assignment:		
Date of Submission:		
Date of Correction:		

Evaluation

Performance Indicator	Max. Marks	Marks Obtained
Completeness	5	
Demonstrated Knowledge	3	
Legibility	2	
Total	10	

Performance Indicator	Exceed Expectations (EE)	Meet Expectations (ME)	Below Expectations (BE)
Completeness	5	3-4	1-2
Demonstrated Knowledge Legibility	3	2	1
Legibility	2	1	0

Checked by

Name of Faculty	:
Signature	•

Date :

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				71/	
		Dark	Not Dark		
	Dark	48	90	138	
	Not Dark	80	782	862	
	Total	128	872	1000	
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				· ;* ,	
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	in fai U1: Thre	is no assorber in father	ouxin between	The dorkness	of
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	in fai U1: Three eye (Making co	is no assortion in father older in father ntingency take	ovistion between h Son. le (observed) Not Dark	The dorkness	of
	in fai U. Thre eye (Making co	is no assortion in father older in father ntingency take Oark 48	ovistion between h Son. le (observed) Not Dark 90	Total	of
	in fai U. Thre eye (Making co Dark Not Dark	is no assortion in father atinguage tak Oark 48	Not Dark 90 782	Total 138 862	of
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	in fai U1: Three eye (Making co Dark Not Dark Total	ther & son is no assortion in father ntinging take Oark 48 80 128 table into Dark On = 48 En = 17.664	Not Dark 90 782 872 Obsumd & a	Total 138 862 1000	
	Dark Not Dark Conunding Dark	is no assortion in father ntinging tak Dark 48 80 128 table into Dark On = 48	Not Dark 90 7 82 8 72 Obsumed & G Not Dark 012 = 90	Total 138 862 1000 Papeded Value Total 138	
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Sundaram

$$\chi_{c}^{2} = \left[\frac{2}{48 - 17.664} \right]^{2} + \left[\frac{90 - 120.336}{120.336} \right]^{2} + \left[\frac{80 - 110.536}{110.336} \right]^{2}$$

$$+ \left[\frac{782 - 751.664}{7511.664} \right]^{2}$$

$$- \frac{751.664}{7511.664}$$
Test stability = $\chi_{c}^{2} = 69.309$

$$- \frac{1}{2} = \frac{$$

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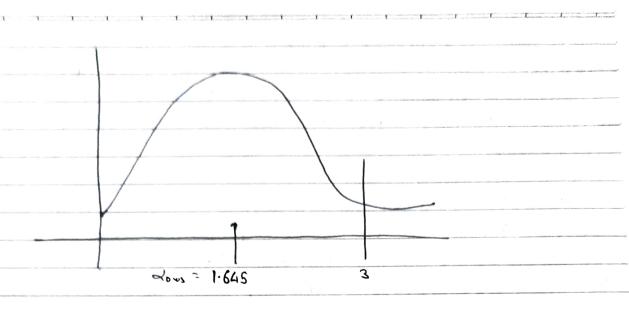
3-841

69 . 309

0.004

	Since 69.309 > 3.841, Hence we accept rull hypothesis (U.) I we conclude that there is an association between the darkens of eye color in father & Son.
Q 2	A mighing machine without any display was used by an aurage of 320 people a day with 5 of
	the machine without, the ary for 100 days increased
	much? Use a S-1 level of significance
	to The display helped (mean > 320)
	Right - tailed test
	$\sigma = 50$; $\tau = 320$; $\tau = 335$ [increased ang]; $\tau = 100$ [n. of days]
	$\frac{7}{2} = \frac{1}{x} - \frac{1}{4}$ = $\frac{335 - 320}{5} = \frac{15}{5}$ = $\frac{3}{5}$
	: Loul of Significance = 5-1.

Sundaram



H. and we conclude that the attractive display helped in increasing the usage