

Name:- Vansh Nilesh Badjate

PRN:- 2124UMLM2022

Practical Set:- 04

Does Caffeine Boost Attention Span?

1. One-Way Anova Test To Check Effect of Caffeine on Attention

→ Oneway								
Descriptives								
Attention Score								
	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
None	3	64.33	2.517	1.453	58.08	70.58	62	67
Low	3	76.67	2.082	1.202	71.50	81.84	75	79
High	3	70.00	2.000	1.155	65.03	74.97	68	72
Total	9	70.33	5.679	1.893	65.97	74.70	62	79
ANOVA								
Attention Score								
		Sum of Squares	df	Mean Square	F	Sig.		
Between Groups		228.667	2	114.333	23.386	.001		
Within Groups		29.333	6	4.889				
Total		258.000	8					

2. Descriptive Statistics (Average of Attention In Different Intakes)

Caffeine Intake	Mean/Average of Attention Span
None	64.3
Low	76.6
High	70.0

3. Does Caffeine Intake Affect on Attention of persons

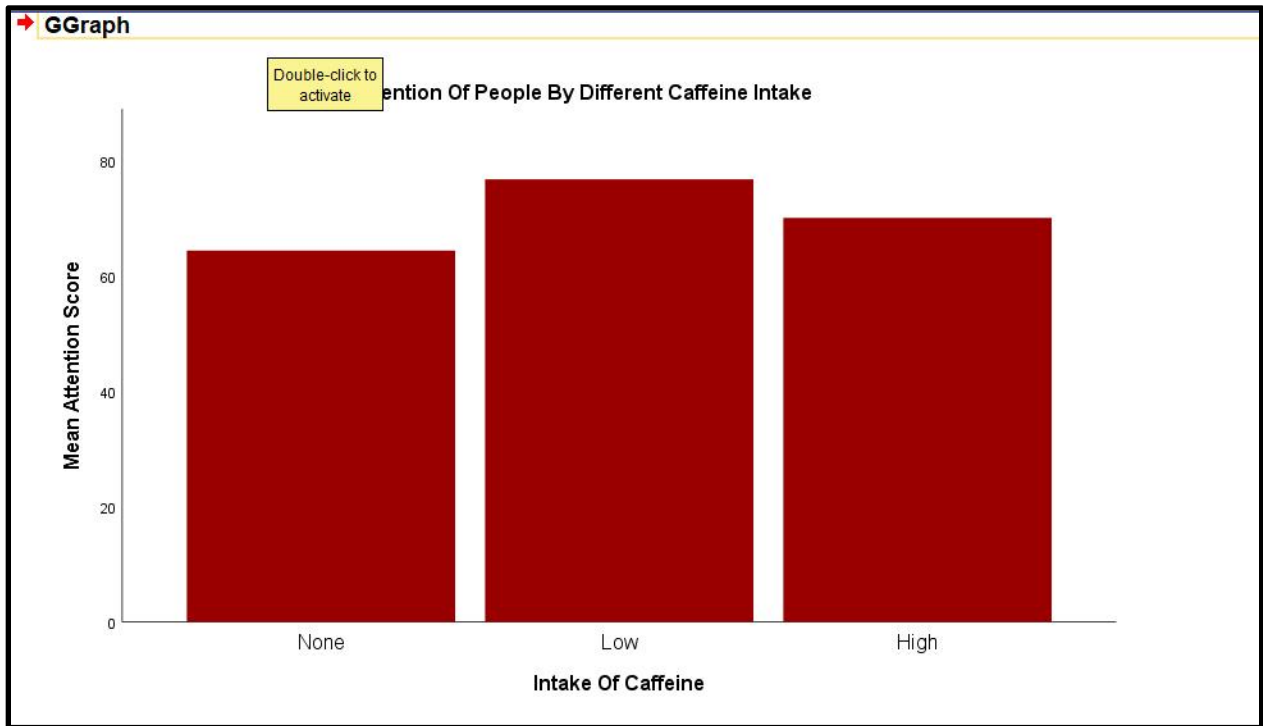
Significant Value from ANOVA Test = 0.001

(If Result is <0.005 then result is Statistically Significant)

* * * 0.001 < 0.005

Hence, Caffeine Intake affect on concentration / Attention of person

4. Visualization / Graph



Based on Anova Test & Bar Chart, Caffeine Intake Affect the Attention Span.

As per mean score,

Low Caffeine Intake = High Attention

High Caffeine Intake = Medium Attention

None(0) Caffeine Intake = Lowest Medium