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September 30, 2023

CAS-05-501A

Activity 7

HO: There is no significant difference between the pretest and post test performance of the students.

\*Output1 [Document1] - IBM SPSS Statistics Viewer

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Output  
Log  
T-Test  
Title  
Notes  
Active Dataset  
Paired Samples S  
Paired Samples C  
Paired Samples T

**T-Test**

[DataSet1]

**Paired Samples Statistics**

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	Pretest	70.32	100	5.889	.589
	Post-test	85.99	100	8.508	.851

**Paired Samples Correlations**

		N	Correlation	Sig.
Pair 1	Pretest & Post-test	100	.068	.500

**Paired Samples Test**

Paired Differences

		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference		t	df	Sig. (2-tailed)
					Lower	Upper			
Pair 1	Pretest - Post-test	-15.670	10.012	1.001	-17.657	-13.683	-15.651	99	.000

Pivot Table Paired Samples Test

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**Paired Samples Test**

Paired Differences

		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference		t	df	Sig. (2-tailed)
					Lower	Upper			
Pair 1	Pretest - Post-test	-15.670	10.012	1.001	-17.657	-13.683	-15.651	99	1.5933E-28

**Text Analysis:**

A paired t- test was conducted to compare the pretest and posttest scores among the 100 selected students in a certain school. Analysis revealed that there is no significant difference on the pretest and posttest performance among the students; as manifested on the computed alpha of  $1.5933 \times 10^{-28}$  (which is nearly 0), lower than the critical value of 0.05. Therefore the null hypothesis is rejected. These results imply that the teacher's excellence during class hours is effective in improving the performance of students during a test.

