Giselle Swann

EDG500

3/2/2023

SPSS Chapter 11 Step by Step:

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.801[a]	0.641	0.582	0.54818

a. Predictors: (Constant), HSGPA

ANOVA[a]

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	3.226	1	3.226	10.735	.017[b]
	Residual	1.803	6	0.300		
	Total	5.029	7			

a. Dependent Variable: CGPA

b. Predictors: (Constant), HSGPA

Coefficients[a]

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	0.537	0.626		0.858	0.424
	HSGPA	0.746	0.228	0.801	3.276	0.017

a. Dependent Variable: CGPA

b. Predictors: (Constant), HSGPA

GGraph
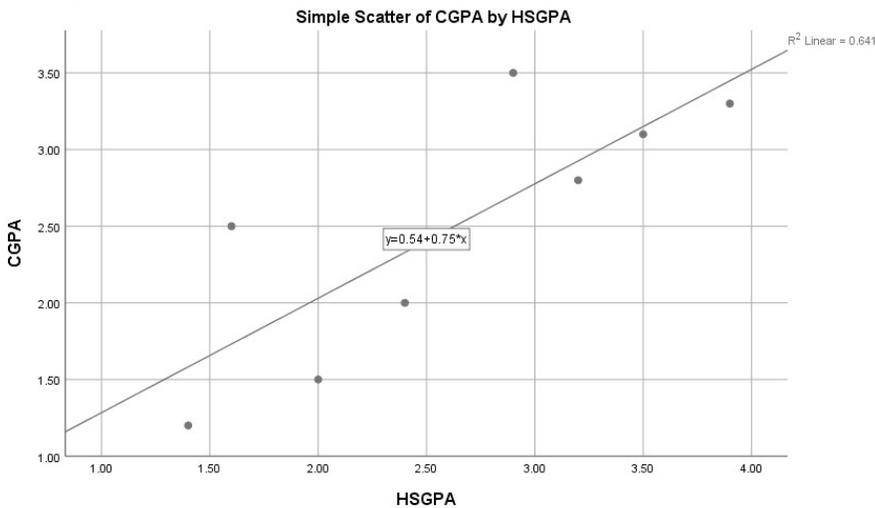
Simple Scatter of CGPA by HSGPA

SPSS Chapter 11 Step by Step:

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.821[a]	0.675	0.634	8.47258

a. Predictors: (Constant), Video Games Scores Average

ANOVA[a]

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	1190.123	1	1190.123	16.579	.004[b]
	Residual	574.277	8	71.785		
	Total	1764.400	9			

a. Dependent Variable: Typing Score

b. Predictors: (Constant), Video Games Scores Average

Coefficients[a]

Model		Unstandardized Coefficients		Standardized Coefficients		
		B	Std. Error	Beta	t	Sig.
1	(Constant)	73.075	7.535		9.698	0.000
	Video Games Scores Average	-0.046	0.011	-0.821	-4.072	0.004

a. Dependent Variable: Typing Score

b. Predictors: (Constant), Video Games Scores Average

GGraph

Simple Scatter of Typing Score by Video Games Scores Average

R^2 Linear = 0.675

y=73.07-0.05*x
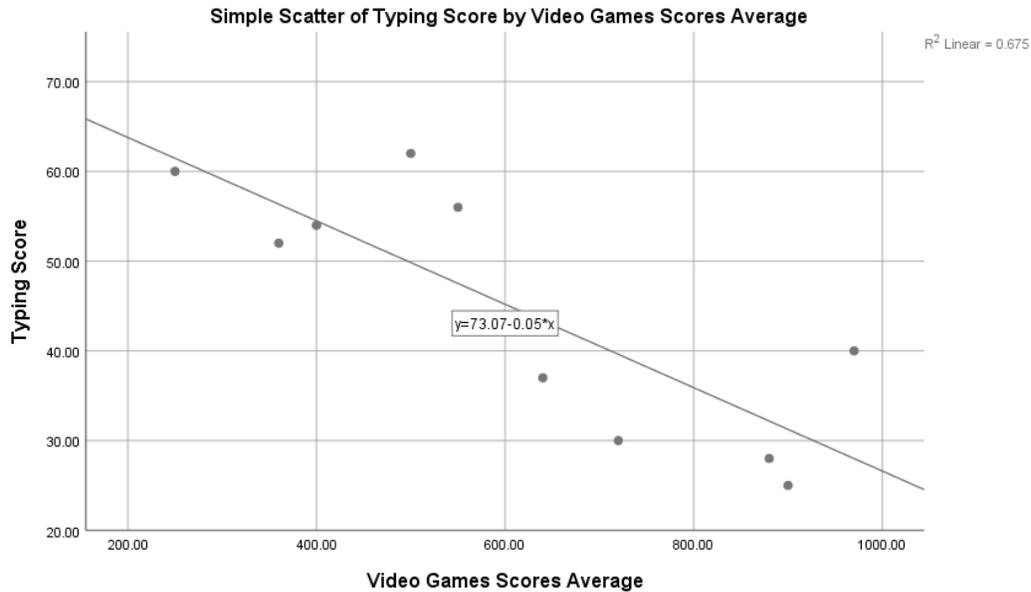
4.

    a. Is the relationship statistically significant? <u>Yes</u>

    b. Is the relationship direct or inverse? <u>Inverse</u>

    c. Is the relationship perfect? <u>No</u>

    d. Is the relationship linear? <u>Yes</u>

    e. What percentage of the variation in **Typing Score** is explained by the variation in the **Video Game Score Averages**? <u>67.5%</u>

5. Given the regression equation, how many words per minute would a person type who possessed a game score average of 570? <u>For a video game score average of 570, our equation **Typing** = 73.08 + (-.05 x -4.1) predicts a person would type 73.285 words per minute.</u>