

**SPSS ASSIGNMENT #10 Correlation & Regression**  
**75 points**



**PART A: PEARSON CORRELATION**

Which variables correlate with suicidality: touch scores, total perceived social support (PSS), screen time (ST) daily average, average perceived vitality scores (PVS), micro-optimism, and/or macro-optimism?

You will use the SPSS regression tool to calculate the correlations between suicidality and each of the other variables listed. Use the SPSS applications at the end of chapter 12 and lab recording 11.

Complete the table below. **Note: for the correlation coefficient, report the sign, whether positive or negative.** To see the sign, you need to look at the table of unstandardized coefficients (B) for the independent variable. If this is negative, then r is negative. If it is positive, then r is positive.

	<b>Correlation coefficient with the sign</b>	<b>Coefficient of determination report as a %</b>	<b>What is the standard error of the estimate <math>S_{y.x}</math>?</b>	<b>Is the correlation significant?</b>
Touch (IV) + Suicidality (DV)				
PSS_total (IV) + Suicidality (DV)				
ST_daily_ave (IV) + Suicidality (DV)				
PVS_ave (IV) + Suicidality (DV)				
MICRO_optimism (IV) + Suicidality (DV)				
MACRO_optimism (IV) + Suicidality (DV)				

**(24 points)**

Create a scatterplot for each pair of variables listed in the table above. Make sure suicidality is on the y-axis for each graph and include the best fitting line. Copy and paste the 6 graphs into a single word document or pdf. Please put them in the same order as listed above. You will upload this document into Canvas. **(11 points + 2 for correct order)**

**CONCLUSIONS**

Describe any and all significant correlations using the format “as \_\_name of 1<sup>st</sup> variable\_\_ increases, \_\_name of 2<sup>nd</sup> variable\_\_ increases (or decreases – as appropriate) **(6 points)**

**PART B: REGRESSION**

Run a linear multiple regression analysis to see what predicts suicidality.

For the predictors, use all the same variables as above, but **only those that were significantly correlated with suicidality**. Fill in the table below.

What does r equal	
What is the adjusted r squared (report as a %)	
What is the sig value in the ANOVA	
Does the regression equation predict suicidality above chance?	

**4 points**

Now let us see which (if any) of the predictor variables are making a significant contribution to the prediction of suicidality

Predictor	Standardized Beta Coefficient	T value	Sig value	Significant contributor (YES or NO)
Touch				
PSS_total				
ST_daily_ave				
PVS_ave				
MICROoptimism				
MACROoptimism				

**24 points**

Which of the variables above is probably the strongest predictor of suicidality?

**2 points**

Explain how you came to this conclusion **2 points**

### **BONUS POINTS:**

Copy and paste all relevant outputs for Part A and B into a single document. Hi-light the numbers you used to complete this assignment. Do all this correctly and receive **5 bonus points** that you can redeem for rewards at the end of the semester.