Problem: Since word of mouth is a powerful tool for promoting a business, Brand X is really interested in knowing how well does brand favorability impact recommendation. Can you decipher the strength and nature of this relationship and quantify it so it can be used for predictive purposes?

Solution: Here **Q5_1**(Brand X brand favorability impact) is independent variable and **Q7_1** (Brand X brand recommendation) is dependent variable.

Since we have one independent variable and one dependent variable, and both are interval scale so we will perform the Simple Linear Regression to built the relationship between these variables.

Null Hypothesis H₀: There is no linear relationship between brand favorability for Band X with Brand recommendation for Brand X

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate		
1	.620ª	.385	.385	.853		
			_			
		Sum of	ANOVA			
Model		Sum of Squares		Mean Square	F	Sig.
Model	Regression	Squares	s df	Mean Square 4830.651	F 6636.321	Sig.
Model 1	Regression Residual	Squares	s df 651 1			

The above table shows the summary of linear regression model build through SPSS using the given dataset, we can say there is **moderate positive correlation** between brand favorability and recommendation with r = 0.620, p < 0.001

And Since R squared is 0.385, we can say that **38.5% variance in brand recommendation** is explained by brand favorability for Band X.

		Unstandardize	d Coefficients	Standardized Coefficients		
Model		В	Std. Error	Beta	t	Sig.
1	(Constant)	087	.035		-2.469	.014
	BrandX (What is your overall opinion of each of the following automotive brands?)	.788	.010	.620	81.464	.000

a. Dependent Variable: BrandX (How likely are you to recommend each of the following brands to a friend, family member, or a colleague?)

For the regression, we can **reject the null hypothesis** and can say that there is nonzero slope coefficient, 0.788 that can describe the relation as p < 0.001 for Brand Favorability coefficient and moreover there is nonzero constant value that is -0.087, p = 0.014 (< 0.05).

Brand Recommendation = -0.087 (constant) + 0.788 * (Brand Favorability)

From the above equation, we can say that a unit change in Brand Favorability can impact the brand recommendation by 0.788, that if brand favorability increase by 1 unit the brand recommendation will increase by 0.788.