Today I will be investigating wether or not the amount of soft drink cans someone consumes has an affect on their yearly income. To determine this, I will construct a scatterplot of the data. In this example, the independent variable is the number of soft drinks consumed, and the dependent variable is the salary.

Based on the scatterplot above, there is a Negative, Moderate and linear relationship between the data. There are two outliers in the data set, and these have been highlighted. These could be from a number of other external factors. However, I do not think that there is a correlation between the data, as there could be numerous factors as to why the higher you income, the lesser amounts of soft drink you consume.

From the scatterplot and analysis, it can be determined that there is a correlation between the independent number of soft drinks consumed, and the total yearly salary, however, there is not a causal relationship between the two, as I believe there could be external factors causing this change.