Relationship between **Pretzels** and **Non-Pretzels.**

As per the graph, it seems that the trend line has a negative slope which in turn shows that as the number of Non-Pretzels increases the number of Pretzels decreases. The value of R-squared denotes that the above relationship is Weak.

Relationship between **Pretzels** and **Beer.**

As per the graph, it seems that the trend line has a positive slope which in turn shows that as the amount of beer increases the number of pretzels increases. The value of R-squared denotes that the above relationship is Weak.

Relationship between **Non-pretzels** and **Beer**.

As per the graph, it seems that the trend line has a negative slope which in turn shows that as the number of Non-Pretzels increases the amount of Beer decreases. The value of R-squared denotes that the above relationship is Weak.

Explain whether the relationship between **Beer** and **Pretzels/Non-Pretzels** is depicted more clearly in Worksheet 2 (Step 3 above) or Worksheet 4 (Step 5 above).

The relationship between Beer and Pretzels/Non-Pretzels is depicted more clearly in Worksheet 2 (Step 3), as we get the detailed information between both the relationships that is Beer vs Pretzels and Beer vs Non-Pretzels in a single plot which is ultimately more useful and simpler in interpreting the desired the result. However, worksheet 4(Step 5) can be useful for interpreting the individual relationship between Beer vs Pretzels/Non-Pretzels using the trendlines which we cannot do so in Worksheet 2 (Step 3).

Explain whether there is any apparent difference in relationship between **Non-Pretzels** and **Pretzels** across **Regions** (Worksheet 3, Step 4).

As per the plot, we can observe that for region 1 and 4, the slope of the trend line is much negatively steeper as compared to region 2 and 3. However, the value of R-Squared observed for region 2 trend line is 0.16 which is comparatively lower as compared to region 1,3 and 4. Hence, it can be interpreted that region 2 has no apparent relationship.