Project 1

**Diabetes Prevalence in the Obesity Population and the Correlation to Population Density**

**Observations:**

1. scatter plot between 25th and 75th of populations density by sq mile.  
   plotting indicates a slightly higher prevalence of diabetes in more sparely populated countries.

The visual observation is supported by Pearson correlation R value of -0.149. This refutes our hypothesis of a relationship between population density in the diabetic obese population. It shows an inverse relationship – countries with less density have a higher % of obese population with diabetes.

* 1. New York County is the most densely populated location in the US with of 70k heads per sq mile. (total pop 1.5mil; 19 other counties have higher populations) (NYC Obesity diabetes prevalence of 15.7%)
  2. However, the largest county by population is Los Angeles 9.8mil but with a density of only 2.4k. (Obesity diabetes prevalence of 21%)