a. Visualize the correlation between all variable in a meaningful way, clear representation of correlations. Find out top 3 reasons for having more crime in a city.

b. What is the difference between covariance and correlation, take an example from this dataset and show the differences if any?

Answer: Covariance indicates the direction of the linear relationship between variables. Correlation on the other hand measures both the strength and direction of the linear relationship between two variables. Correlation is a function of the covariance. What sets them apart is the fact that correlation values are standardized whereas, covariance values are not.