

## Assignment - 5

1. Define the concept of "Geoms" in the context of CGPlot2/Plotnine. Explain how changing geoms can alter the appearance of a plot and provide an example to illustrate your explanation.
2. Discuss the significance of "Stats" in data visualization using CGPlot2/Plotnine. Provide three examples of statistical transformations commonly applied to data before visualization and explain how each transformation impacts the resulting plot.
3. Explain the concept of "Faceting" in data visualization. Describe how faceting can be used to create multiple plots based on subsets of data and provide a step-by-step example using CGPlot2/Plotnine.
4. Describe the role of "Themes" in the customization of plots using CGPlot2/Plotnine. Provide three examples of commonly used themes and discuss how they influence the visual appearance of plots.
5. Discuss the importance of "Legends" and "Palettes" in data visualization. Explain how legends and palettes contribute to conveying information in plots, and provide examples demonstrating their usage in CGPlot2/Plotnine visualizations.

