**1. Line Plot Tasks:**

* **Task 1.1:** Create a simple line plot to show the trend of stock prices over time. Use a dataset with columns like Date and Closing Price. (Please find and download related dataset from ‘Kaggle’ or the likes of it.)
* **Task 1.2:** Plot multiple lines to compare the monthly average temperatures of three different cities over a year. Add a legend to distinguish between cities.
* **Task 1.3:** Experiment with sns.set\_style('darkgrid') and sns.set\_style('whitegrid'). Compare how the grid affects the line plot appearance.

**2. Scatter Plot Tasks:**

* **Task 2.1:** Use a scatter plot to show the relationship between height and weight from a dataset. Add different markers for males and females using the hue parameter.
* **Task 2.2:** Create a scatter plot using a dataset of house prices where square\_footage is on the x-axis, price on the y-axis, and location as the hue. Set sizes to represent the number of bedrooms.
* **Task 2.3:** Customize the appearance of the scatter plot by using sns.set\_context("talk") to make the plot more readable during presentations.

**3. Regplot Tasks:**

* **Task 3.1:** Use sns.regplot() to visualize the relationship between sepal\_length and petal\_length from the Iris dataset. Turn off the confidence interval (ci=None) and observe how the plot changes. iris = sns.load\_dataset('iris')
* **Task 3.2:** Explore how adding different confidence intervals (e.g., ci=68, ci=99) impacts the visual representation in a regression plot.
* **Task 3.3:** Combine multiple regplots into one figure using plt.subplots() to compare the relationships between variables (e.g., total\_bill vs tip, size vs tip) in the Seaborn Tips dataset.
* tip = sns.load\_dataset('tips')

**4. Style and Color Tasks:**

* **Task 4.1:** Create a scatter plot showing car engine size vs displacement using the mpg dataset. Experiment with different color palettes like Blues, Reds, or coolwarm to visually distinguish the points. mpg = sns.load\_dataset('mpg')
* **Task 4.2:** Use sns.set\_style('white') and sns.set\_style('ticks') and apply sns.despine() to remove the top and right borders of the plot. Observe how the style changes.
* **Task 4.3:** Set a custom color palette for categorical variables (e.g., species in the Iris dataset) using sns.color\_palette().

**5. FacetGrid Tasks:**

* **Task 5.1:** Use FacetGrid to visualize the distribution of total bill and tips in the tips dataset for different days of the week. Set up columns by time (Lunch or Dinner) and rows by day.
* **Task 5.2:** Create a FacetGrid with scatter plots showing the relationship between sepal\_width and petal\_width in the Iris dataset, and use species as the hue. Adjust the height and aspect ratio to better fit the plot.
* **Task 5.3:** Use a FacetGrid to visualize different regression lines for different species in the Iris dataset, plotting sepal\_length vs petal\_length.