## Matplotlib Assessment

- 1. Plot a simple line graph using the values: x = [1, 2, 3, 4], y = [10, 20, 25, 30]
- 2. Add a title and axis labels to the line graph in Question 1.
- 3. Plot a red dotted line for: x = [0, 1, 2, 3], y = [3, 6, 1, 8]
- 4. Plot two lines in the same graph: x = [1, 2, 3, 4], y1 = [10, 20, 25, 30], y2 = [5, 15, 20, 25]
- 5. Add a legend to the above plot to differentiate the two lines.
- 6. Plot a bar chart for: Fruits = ['Apple', 'Banana', 'Mango'], Quantity = [10, 20, 15]
- 7. Plot a horizontal bar chart for the same fruit and quantity data.
- 8. Create a pie chart with percentage labels: Subjects = ['Math', 'Science', 'English'], Values = [30, 40, 30]
- 9. Create a scatter plot: x = [5, 7, 8, 7], y = [8, 5, 6, 3]
- 10. Create a histogram for the data: marks = [60, 70, 80, 75, 70, 90, 85, 80]
- 11. Create a subplot with two plots: one line plot and one bar chart.
- 12. Change the figure size to 8x5 while plotting a simple graph.
- 13. Plot a graph with customized line style, marker, and color.
- 14. Save a plot as a PNG file using plt.savefig()
- 15. Add grid lines to any plot you create.
- 16. Plot a line graph and annotate the highest point on it.
- 17. Create a bar chart and add value labels on top of each bar.
- 18. Create a plot with x-axis rotated 45 degrees using tick labels: Months = ['Jan', 'Feb', 'Mar', 'Apr'], Sales = [250, 300, 150, 400]
- 19. Draw three subplots in a single row, each with a different plot (line, bar, pie).
- 20. Use different colors for each bar in a bar chart using the color parameter.