Section	No.	PROGRAM LIST	PAGE NO.	DATE	SIGNATURE
A.	1.	Create a simple bar chart using student marks or sales data and explain what it shows.			
	2.	Draw a line chart to represent time-based data (monthly attendance or sales).			
	3.	Perform data representation vs data presentation using at least two chart types.			
	4.	Identify the purpose of data visualization for a dataset and use a donut chart.			
	5.	Explain the seven stages of data visualization with a simple example.			
	6.	Create one basic visualization using Excel / Google Sheets / Tableau / Power BI.			
B.	1.	Create an area chart for time-series data such as yearly profit or rainfall data.			
	2.	Draw a scatter plot to show relationship between two variables (study hours vs marks).			
	3.	Create a pivot table and pivot chart using a simple dataset.			
	4.	Design a tree map to represent category-wise data.			
	5.	Draw a simple node-link diagram to show relationships.			
	6.	Visualize correlation between numerical variables using heatmap.			
C.	1.	Create a time-series visualization with multiple variables and analyze patterns.			
	2.	Perform text visualization by word frequency and plot it.			
	3.	Create a multivariate chart using more than two variables.			
	4.	Study a small case example where visualization helps in understanding data.			
	5.	Create a live-like data visualization using continuously updated values.			
	6.	Write basic rules or best practices for good visualization with examples.			
D.	1.	Create a basic chart to show open and closed ports from given data.			
	2.	Create a firewall log visualization to identify suspicious traffic.			
	3.	Design an intrusion detection log visualization and highlight possible attacks.			
	4.	Write a program to implement sentiment analysis on live tweet data using Python.			
	5.	Create interactive visualizations to monitor IoT device activity in real-time.			
	6.	Design a secured data visualization system architecture and explain security measures.			