

Ex.No:11

Date:

DATA VISUALIZATION USING LINE GRAPH

AIM:

To visualize data using `plotly` framework.

PROCEDURE:

1. The **plot()** function in R is used to create the line graph.
2. The basic syntax to create a line chart in R is –

```
i. plot(v,type,col,xlab,ylab)
```

3. Following is the description of the parameters used –
 - a. **v** is a vector containing the numeric values.
 - b. **type** takes the value "p" to draw only the points, "l" to draw only the lines and "o" to draw both points and lines.
 - c. **xlab** is the label for x axis.
 - d. **ylab** is the label for y axis.
 - e. **main** is the Title of the chart.
 - f. **col** is used to give colors to both the points and lines.
4. We add color to the points and lines, give a title to the chart and add labels to the axes.

PROGRAM:

```
# Create the data for the chart.
v <- c(7,12,28,3,41)

# Give the chart file a name.
png(file = "line_chart_label_colored.jpg")

# Plot the bar chart.
plot(v,type = "o", col = "red", xlab = "Month", ylab = "Rain fall",
main = "Rain fall chart")

# Save the file.
dev.off()
```

RESULT:

Thus the data is visualized using plotty framework.

OUTPUT:

