Ex.No:8 **Date:**	**DATA VISUALIZATION USING BAR PLOT**

AIM:

To visualize data using plotty framework.

PROCEDURE:

1. R uses the function **barplot()** to create bar charts. R can draw both vertical and horizontal bars in the bar chart. In bar chart each of the bars can be given different colors.

2. The basic syntax to create a bar-chart in R is −

> i. barplot(H, xlab, ylab, main, names.arg, col)

3. Following is the description of the parameters used −

   a. **H** is a vector or matrix containing numeric values used in bar chart.

   b. **xlab** is the label for x axis.

   c. **ylab** is the label for y axis.

   d. **main** is the title of the bar chart.

   e. **names.arg** is a vector of names appearing under each bar.

   f. **col** is used to give colors to the bars in the graph.

4. The **main** parameter is used to add **title**. The **col** parameter is used to add colors to the bars. The **args.name** is a vector having same number of values as the input vector to describe the meaning of each bar.

PROGRAM:

```r
# Create the data for the chart.
H <- c(7,12,28,3,41)
M <- c("Mar","Apr","May","Jun","Jul")

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

# Plot the bar chart.
barplot(H,names.arg = M,xlab = "Month",ylab = "Revenue",col = "blue",
     main = "Revenue chart",border = "red")

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

RESULT:

Thus the data is visualized using plotty framework.

OUTPUT: