Ex.No:9 Date:	DATA VISUALIZATION USING BOX PLOT

AIM:

To visualize data using plotty framework.

PROCEDURE:

1. Boxplots are created in R by using the **boxplot()** function.

2. The basic syntax to create a boxplot in R is −

> boxplot(x, data, notch, varwidth, names, main)

3. Following is the description of the parameters used −

   a. **x** is a vector or a formula.

   b. **data** is the data frame.

   c. **notch** is a logical value. Set as TRUE to draw a notch.

   d. **varwidth** is a logical value. Set as true to draw width of the box proportionate to the sample size.

   e. **names** are the group labels which will be printed under each boxplot.

   f. **main** is used to give a title to the graph.

PROGRAM:

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

# Plot the chart.
boxplot(mpg ~ cyl, data = mtcars, xlab = "Number of Cylinders",
     ylab = "Miles Per Gallon", main = "Mileage Data")

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

RESULT:

Thus the data is visualized using plotty framework.

OUTPUT: