

**Ex.No:10**

**Date:**

## **DATA VISUALIZATION USING HISTOGRAM**

### **AIM:**

To visualize data using plotty framework.

### **PROCEDURE:**

1. R creates histogram using **hist()** function. This function takes a vector as an input and uses some more parameters to plot histograms.
2. The basic syntax for creating a histogram using R is –

```
i. hist(v,main,xlab,xlim,ylim,breaks,col,border)
```

3. Following is the description of the parameters used –
  - a. **v** is a vector containing numeric values used in histogram.
  - b. **main** indicates title of the chart.
  - c. **col** is used to set color of the bars.
  - d. **border** is used to set border color of each bar.
  - e. **xlab** is used to give description of x-axis.
  - f. **xlim** is used to specify the range of values on the x-axis.
  - g. **ylim** is used to specify the range of values on the y-axis.
  - h. **breaks** is used to mention the width of each bar.

**PROGRAM:**

```
# Create data for the graph.
v <- c(9,13,21,8,36,22,12,41,31,33,19)

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

# Create the histogram.
hist(v,xlab = "Weight",col = "yellow",border = "blue")

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

**RESULT:**

Thus the data is visualized using plotly framework.

## **OUTPUT:**

