Ex No 10

AIM:

ToVisualizeDatausingAnyplottingFrameworkusingRprogramming.

PROCEDURE:

- InstallPlotlyusingpipinstallplotlyifit'snotalreadyinstalled.
- Import the necessary libraries: import plotly. express as px and import pandas as pd.
- Load your dataset into a DataFrame using pd.read_csv() or other data loading methods.
- Explore the dataset to understand its structure, variables, and potential visualizations.
- ChoosetheappropriatePlotlyfunction(e.g.,px.scatter,px.bar,px.line)basedonthetype of data and the desired plot.
- Define the x and y axes by specifying the columns from the DataFrame.
- Customizetheplotbyaddingtitles,labels,colorcoding,andotherplot-specific attributes.
- Add interactive elements like hover data, tooltips, or facet plots for deeper insights.
- Render the plot using fig.show() to display it in a web browser or inline in a notebook.
- SavetheplottoanHTMLfileorasastaticimageusingfig.write_html()or fig.write_image().

CODE:

Scatter Plot.R:

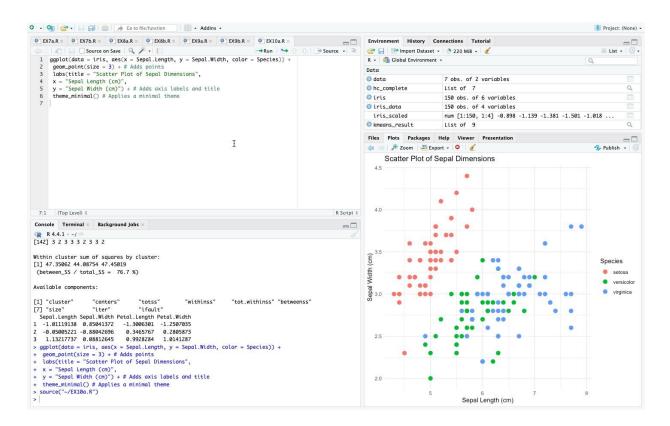
Bar Chart.R:

Histogram.R:

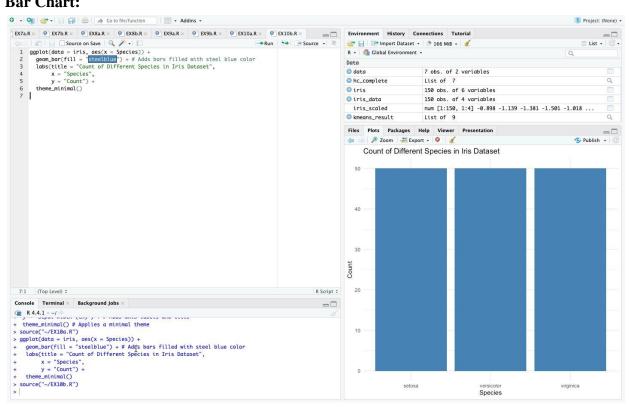
Box Plot.R:

OUTPUT:

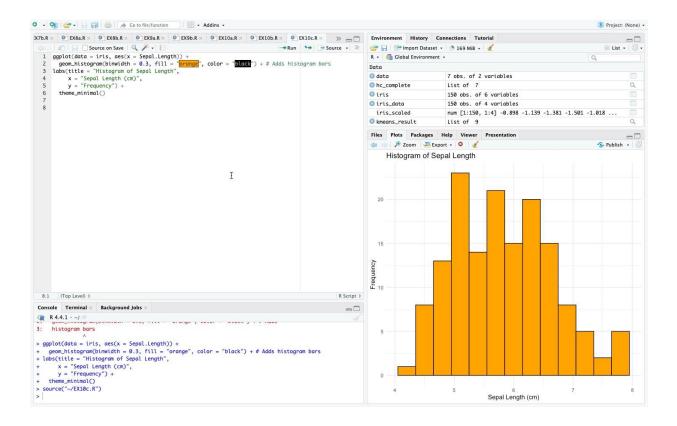
Scatter Plot:



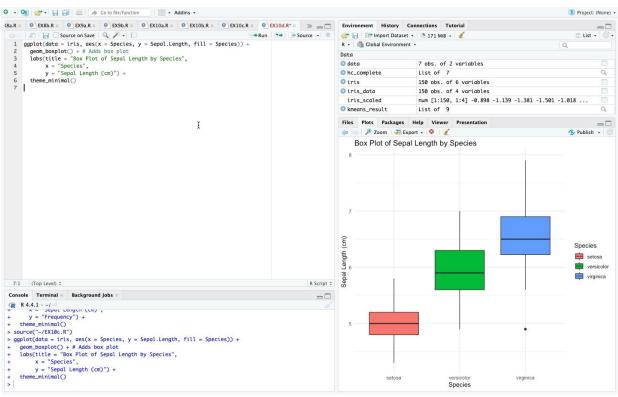
Bar Chart:



Histogram:



Box Plot:



RESULT:

Thus, Visualizing Datausing any plotting framework using Rprogramming has been successfully executed.