VISUALIZE DATA USING ANY PLOTTING FRAMEWORK

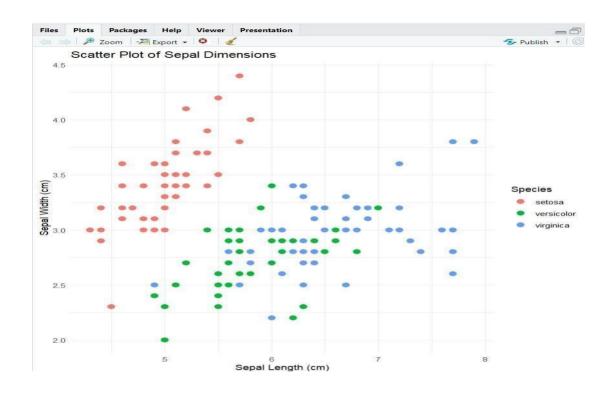
AIM:

To implement a visualize Data using any plotting framework using R Studio.

1) SCATTER PLOT

```
# Scatter plot of Sepal.Length vs Sepal.Width, colored by Species ggplot(data
= iris, aes(x = Sepal.Length, y = Sepal.Width, color = Species))
+ geom_point(size = 3) + # Adds points labs(title =
"Scatter Plot of Sepal Dimensions", x = "Sepal Length
(cm)", y = "Sepal Width (cm)") + # Adds axis labels
and title theme_minimal() # Applies a minimal theme
```

OUTPUT:



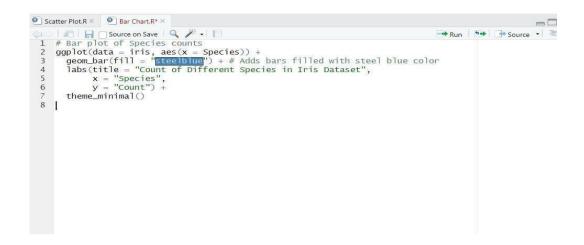
2) BAR CHART

```
# Install ggplot2 (if not already installed) install.packages("ggplot2")
```

Load the ggplot2 package library(ggplot2)

Bar plot of Species counts ggplot(data = iris, aes(x = Species)) + geom_bar(fill = "steelblue") + # Adds bars filled with steel blue color labs(title = "Count of Different Species in Iris

Dataset", x = "Species", y = "Count") + theme_minimal() **OUTPUT:**





3) HISTOGRAM

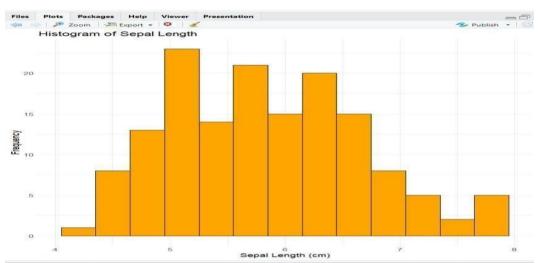
```
# Install ggplot2 (if not already installed)
install.packages("ggplot2")

# Load the ggplot2 package library(ggplot2)

# Histogram of Sepal Length
ggplot(data = iris, aes(x = Sepal.Length)) +
geom_histogram(binwidth = 0.3, fill = "orange", color = "black") + # Adds
histogram bars labs(title = "Histogram of Sepal
Length", x = "Sepal Length (cm)", y
= "Frequency") +
theme_minimal()
```

OUTPUT:





4) BOX PLOT

```
# Install ggplot2 (if not already installed) install.packages("ggplot2")
```

Load the ggplot2 package library(ggplot2)

OUTPUT:



RESULT:

Thus, the visualize Data using any plotting framework using R Studio have been successfully executed.