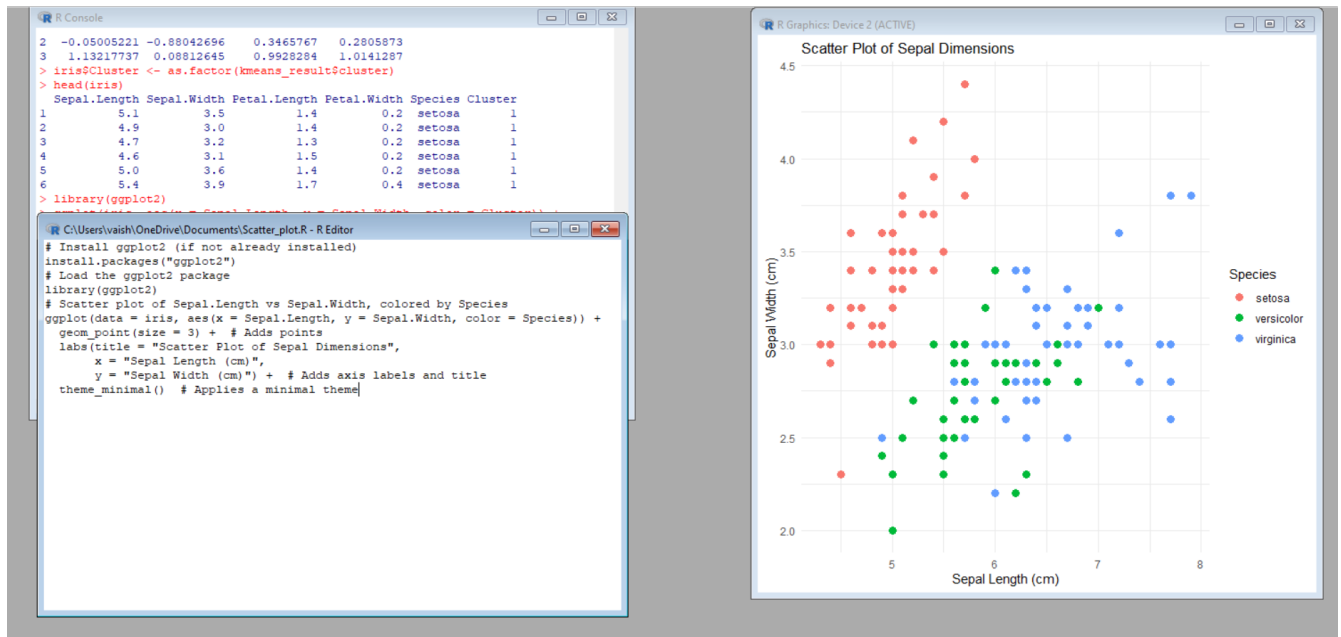


Exp:10**VISUALIZE DATA USING ANY PLOTTING FRAMEWORK****1) SCATTER PLOT**

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

# Load the ggplot2 package
library(ggplot2)

# 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
```

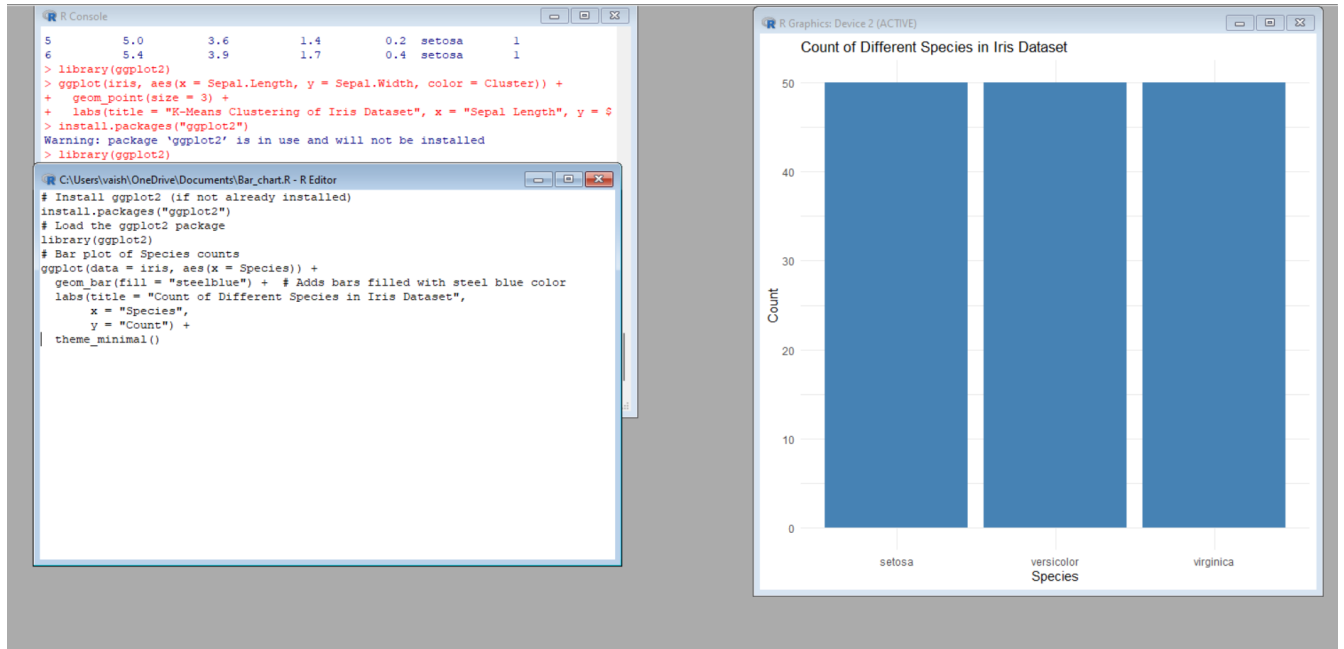
**2) BAR CHART**

```
# 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()
```

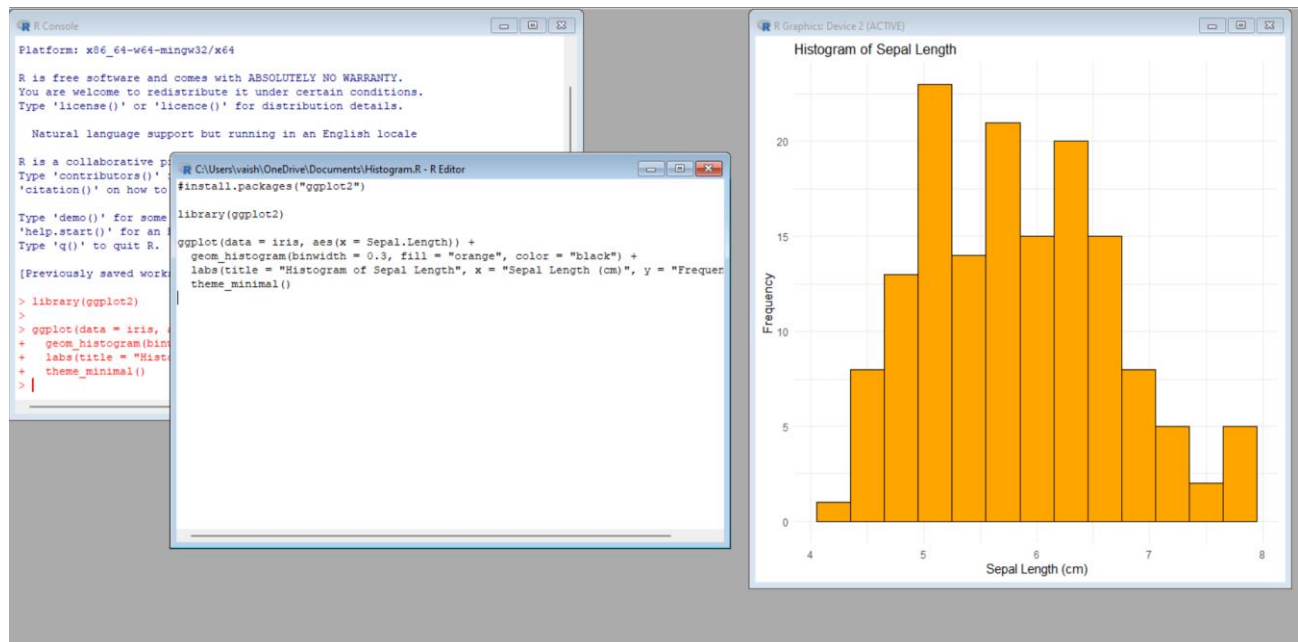


3) HISTOGRAM

```
# 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()
```



4)BOX PLOT

Install ggplot2 (if not already installed)

install.packages("ggplot2")

Load the ggplot2 package

library(ggplot2)

Box plot of Sepal Length for each Species

ggplot(data = iris, aes(x = Species, y = Sepal.Length, fill = Species)) +

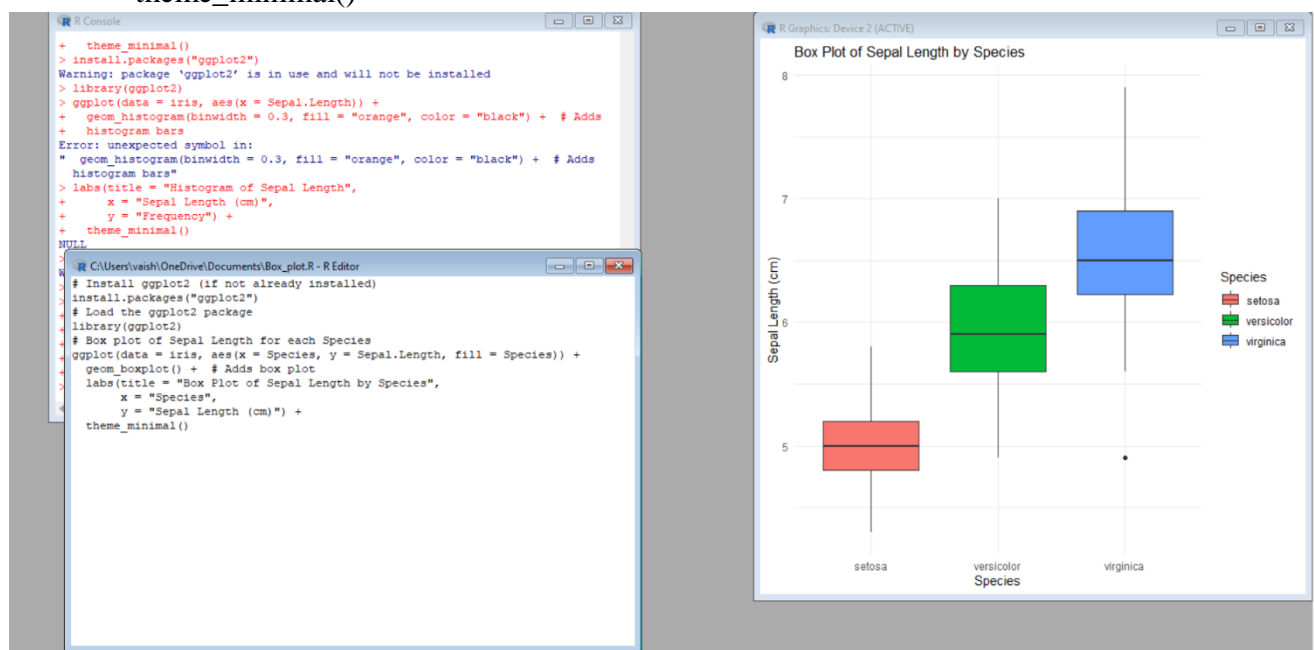
geom_boxplot() + # Adds box plot

labs(title = "Box Plot of Sepal Length by Species",

x = "Species",

y = "Sepal Length (cm)") +

theme_minimal()



RESULT :

Thus the visualizing data using plotting framework is successfully executed using R.