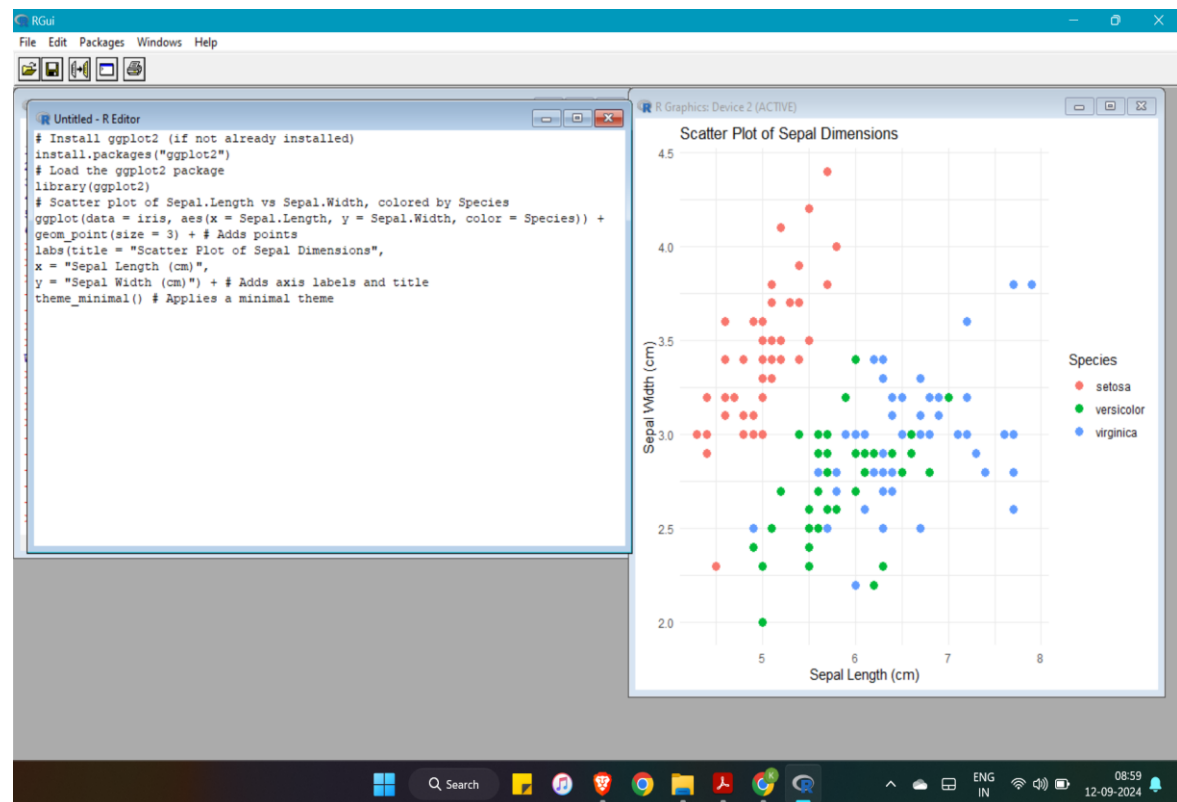


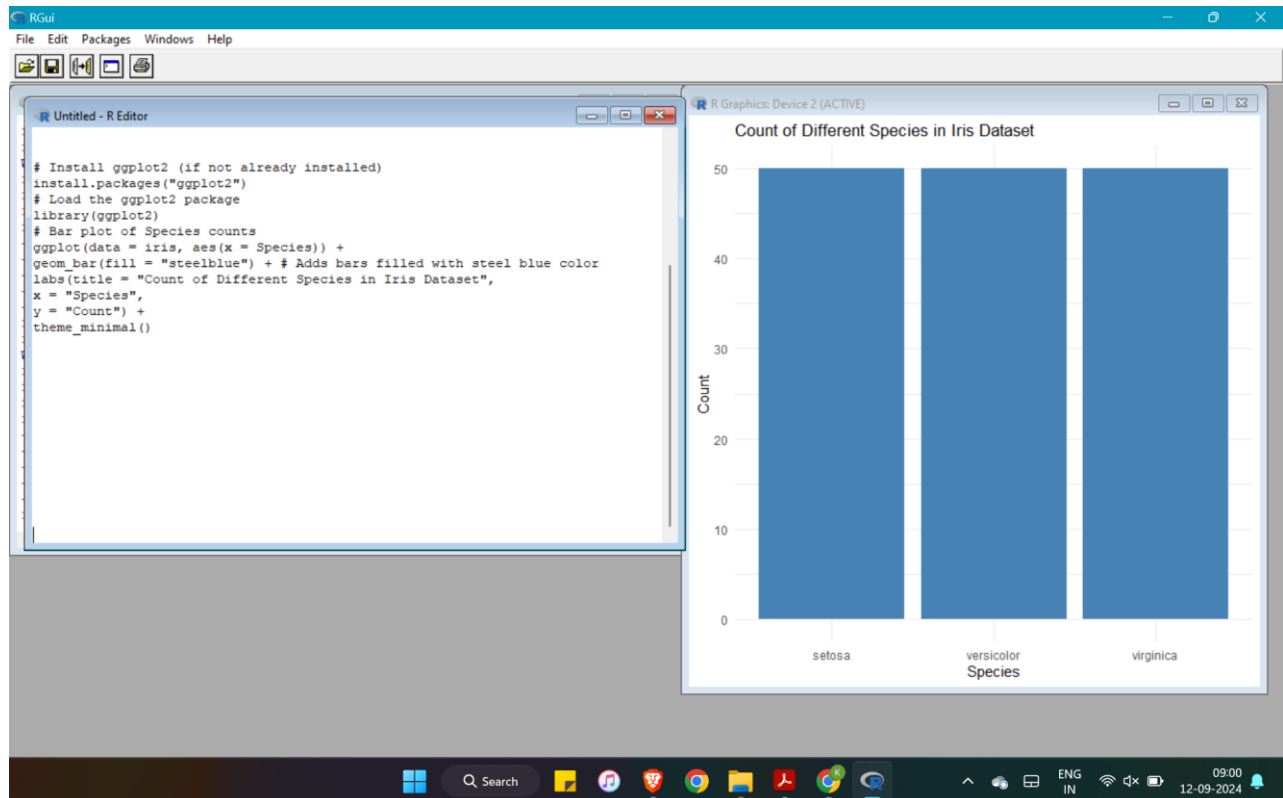
EXP NO: 10**VISUALIZE DATA USING ANY PLOTTING FRAMEWORK****a) SCATTER PLOT**

```
# 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
```

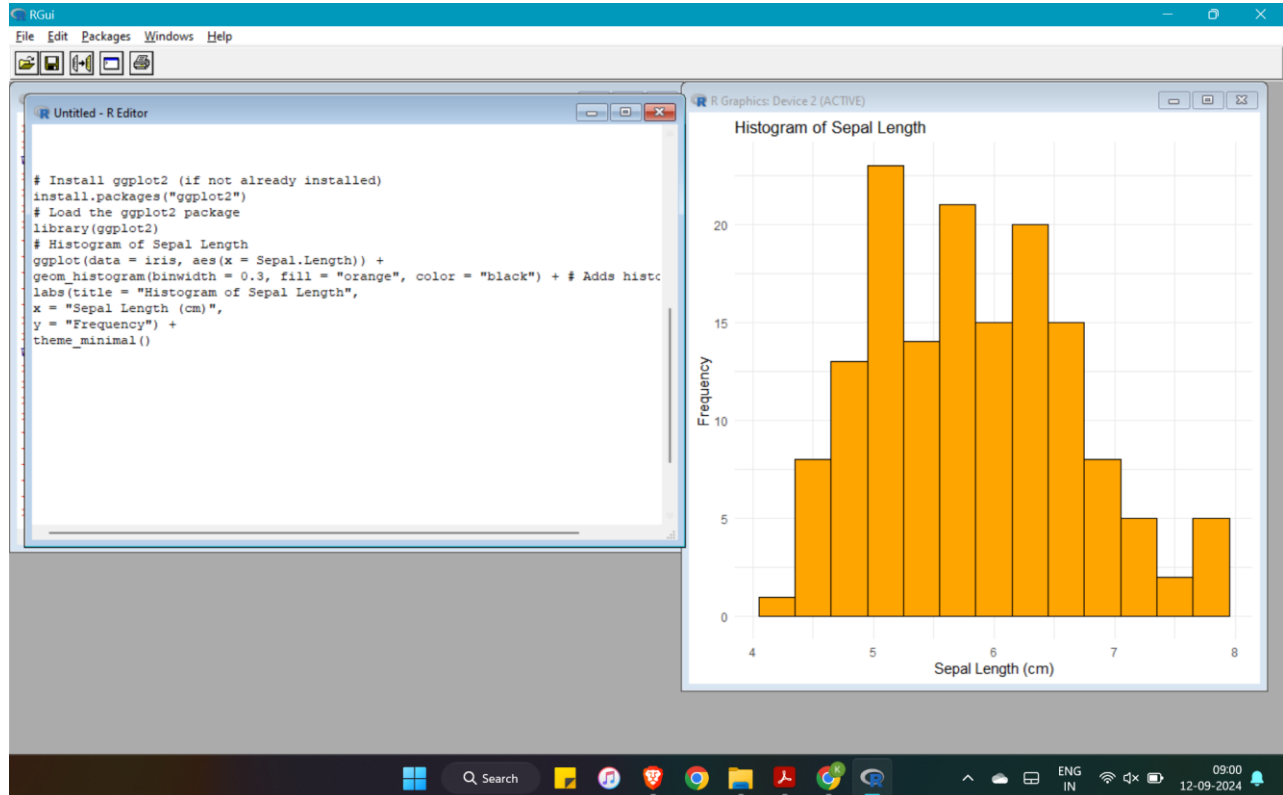
**OUTPUT:****b) BAR CHART**

```
# 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:**c) 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:**d) 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()
```

OUTPUT: