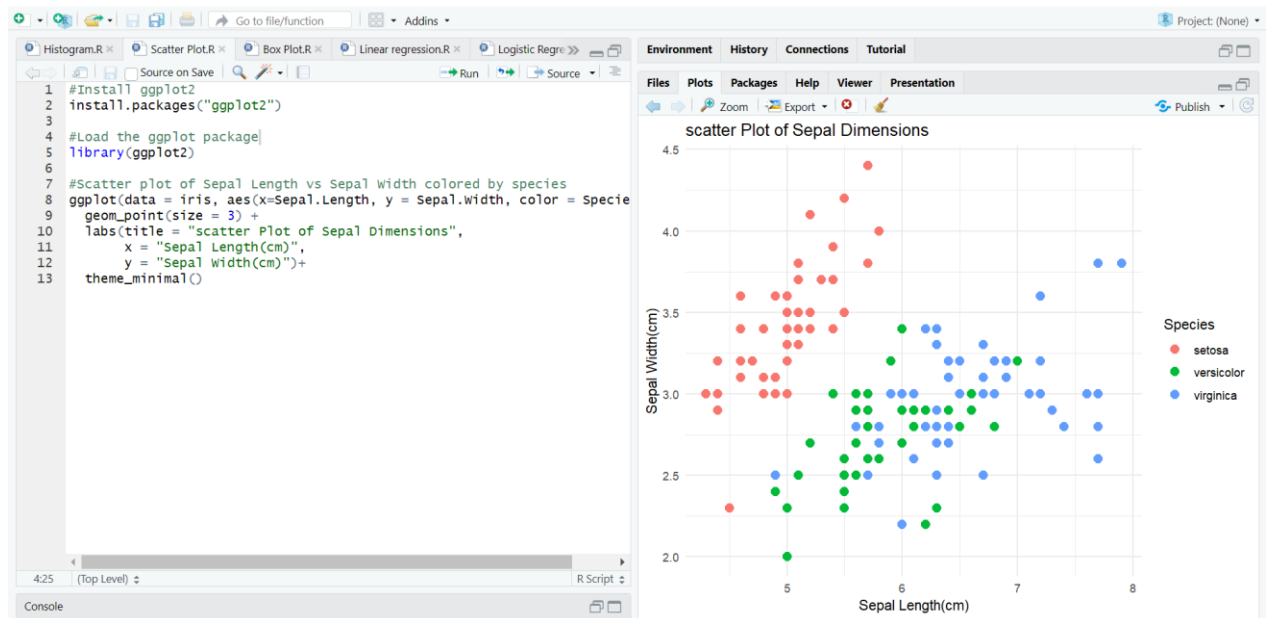


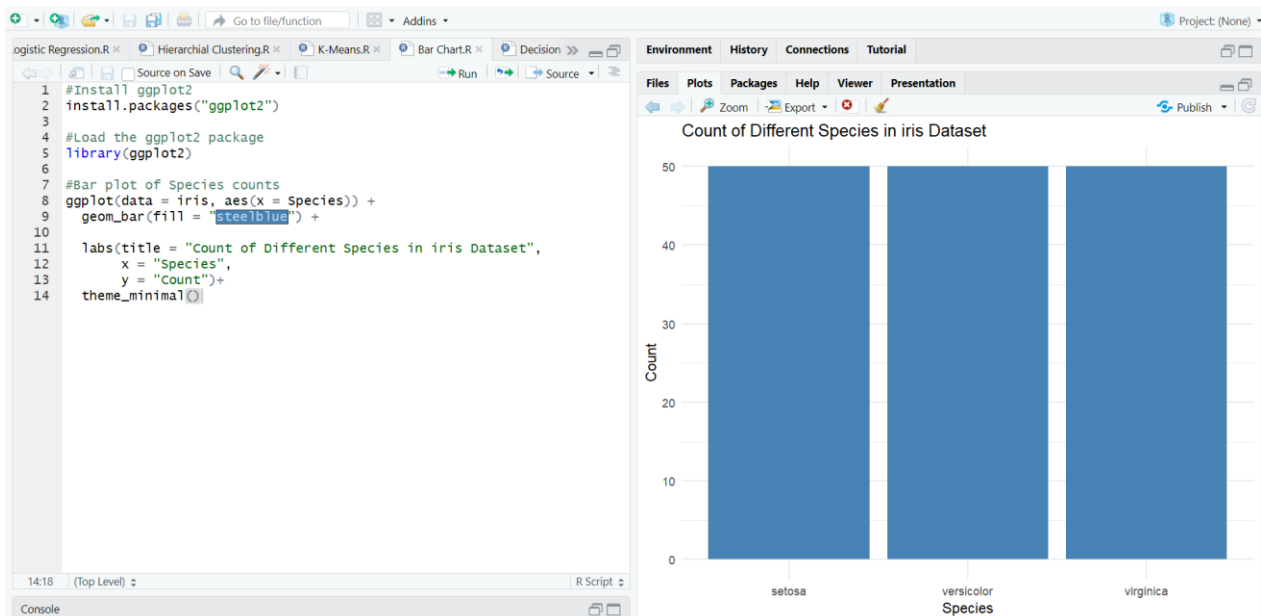
EXP NO: 10**VISUALIZE DATA USING ANY PLOTTING FRAMEWORK****a) SCATTER PLOT**

```
# 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)") + theme_minimal()
# Adds axis labels and title theme_minimal()
```

OUTPUT:

b) BAR CHART

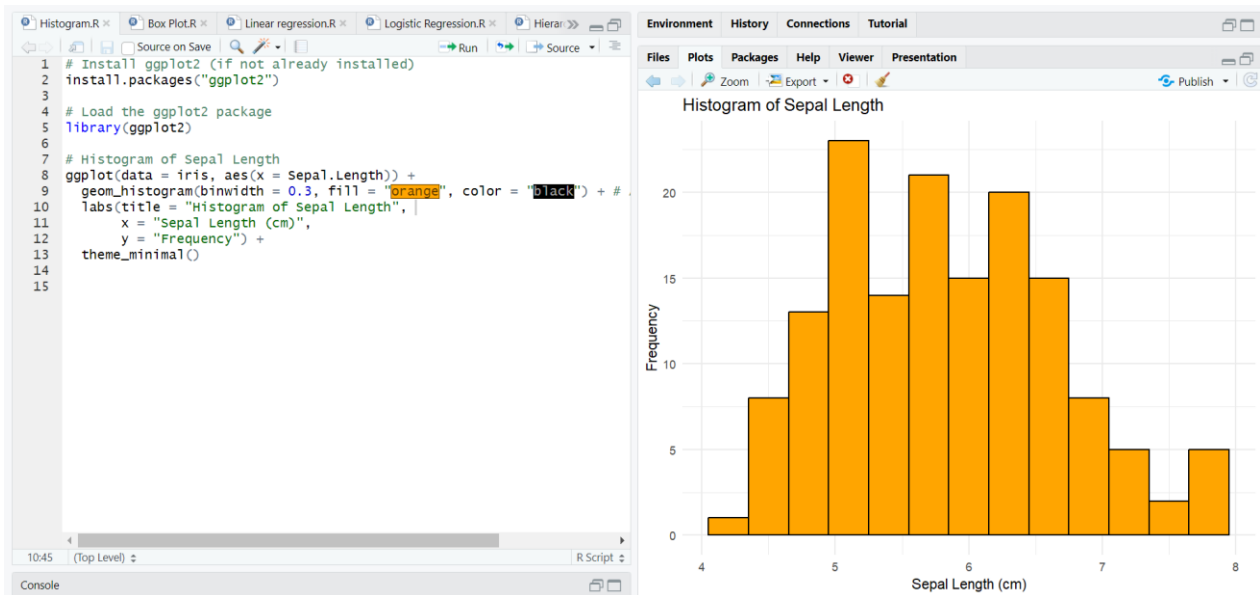
```
# Install ggplot2 (if not already installed)
install.packages("ggplot2") #
Load the ggplot2 package
library(ggplot2)
# Bar plot of Species counts ggplot(data
= iris, aes(x = Species)) +
geom_bar(fill = "steelblue") + # Adds bars filled with steel blue color
labs(title = "Count of Different Species 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:

