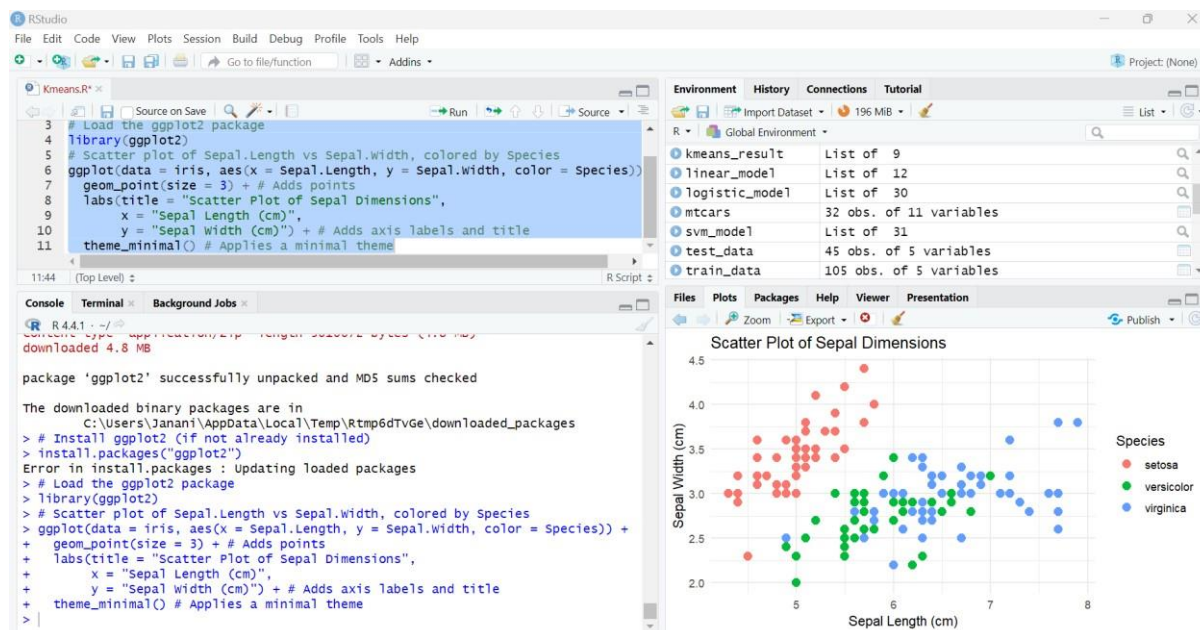


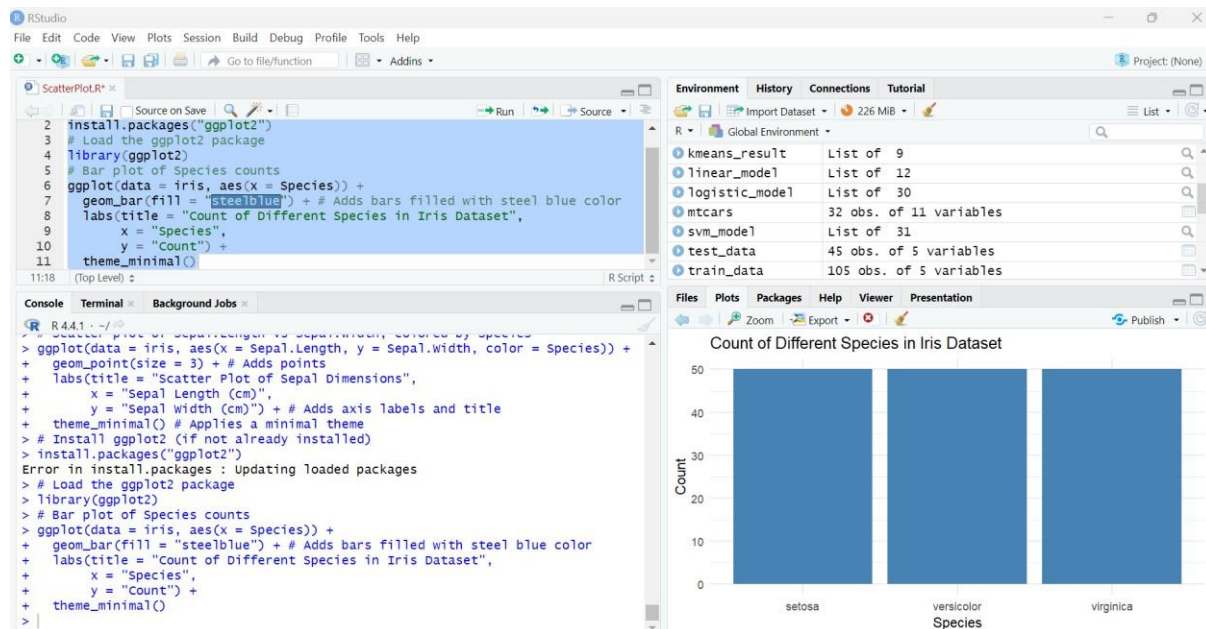
Exp:10**VISUALIZE DATA USING ANY PLOTTING FRAMEWORK****1) SCATTER PLOT**

```
# 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**

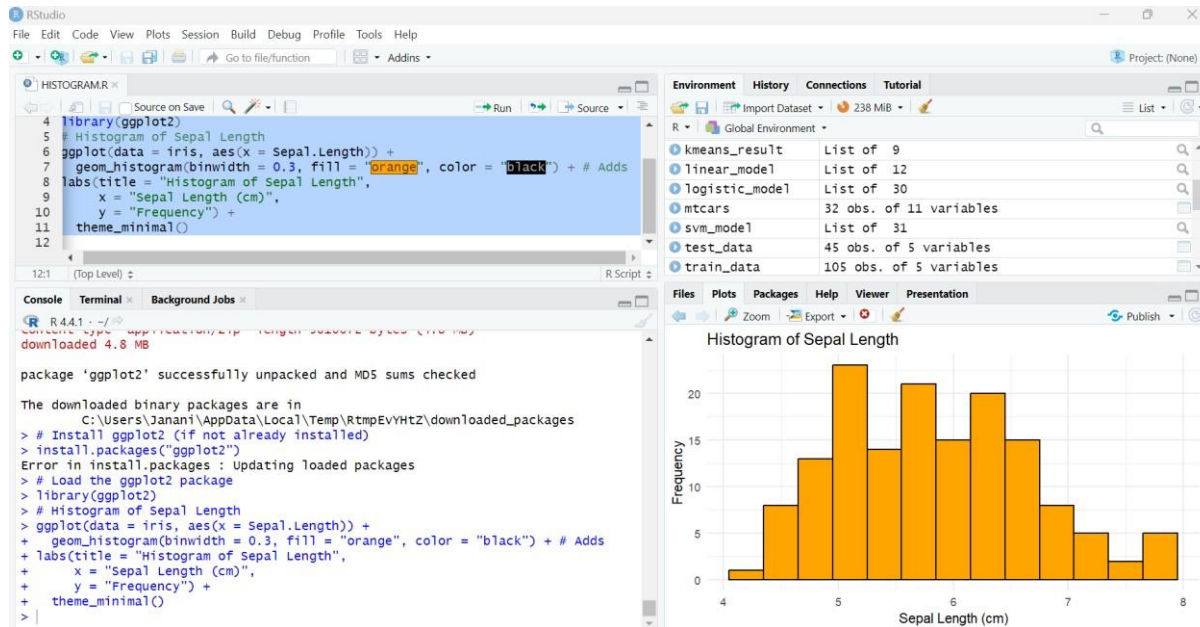
```
# Install ggplot2 (if not already installed)
install.packages("ggplot2") # Load the
ggplot2 package library(ggplot2)
```

```
# 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()

