

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)

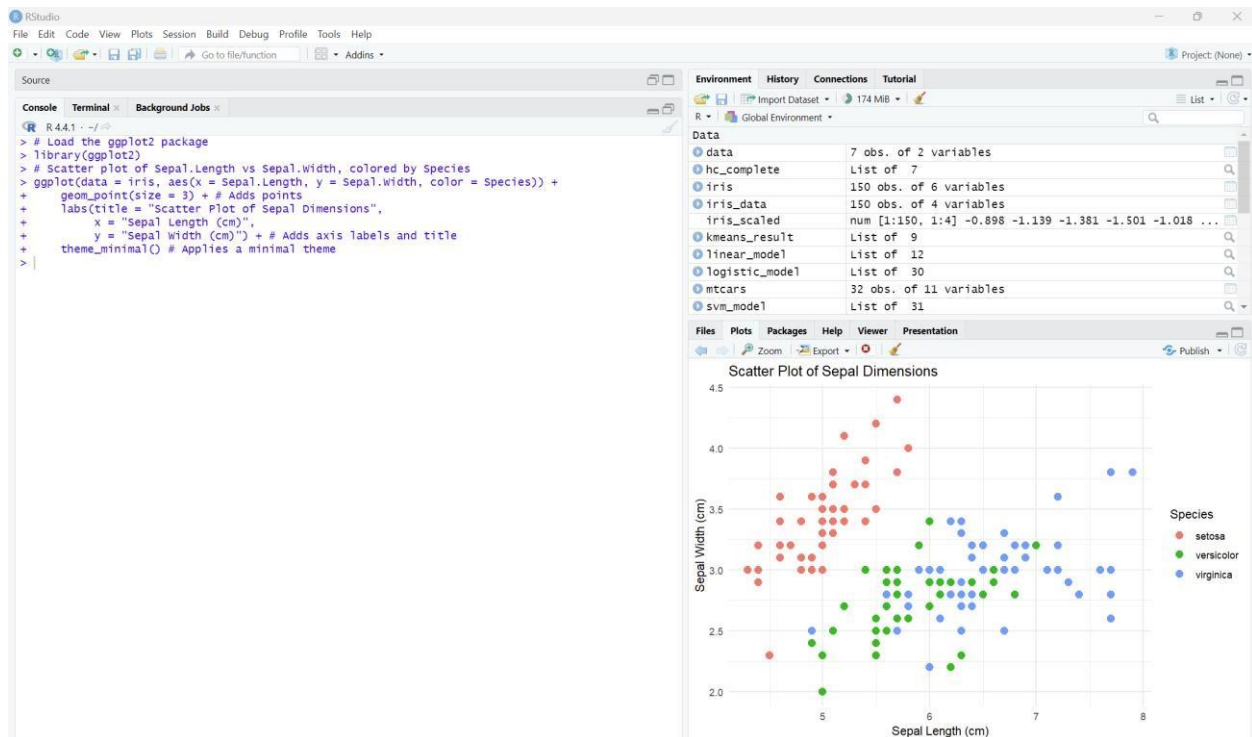
Scatter plot of Sepal.Length vs Sepal.Width, colored by Species

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



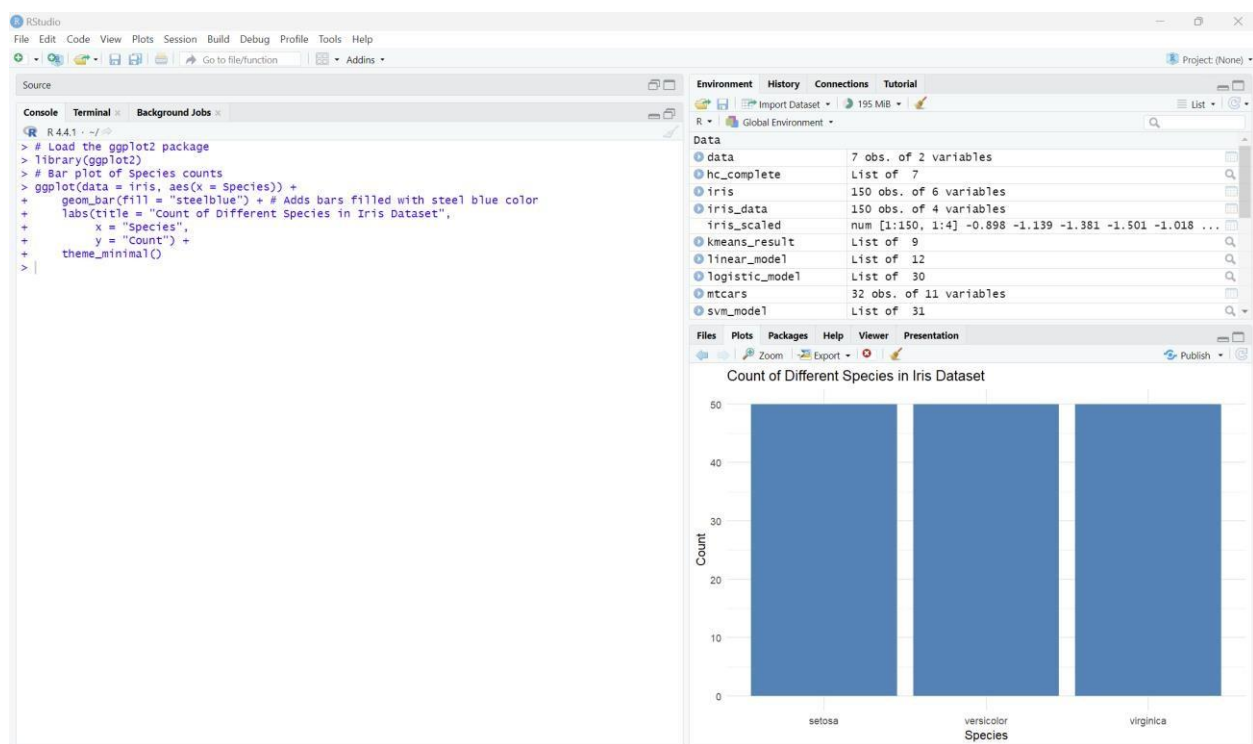
2) BAR CHART

```
# 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

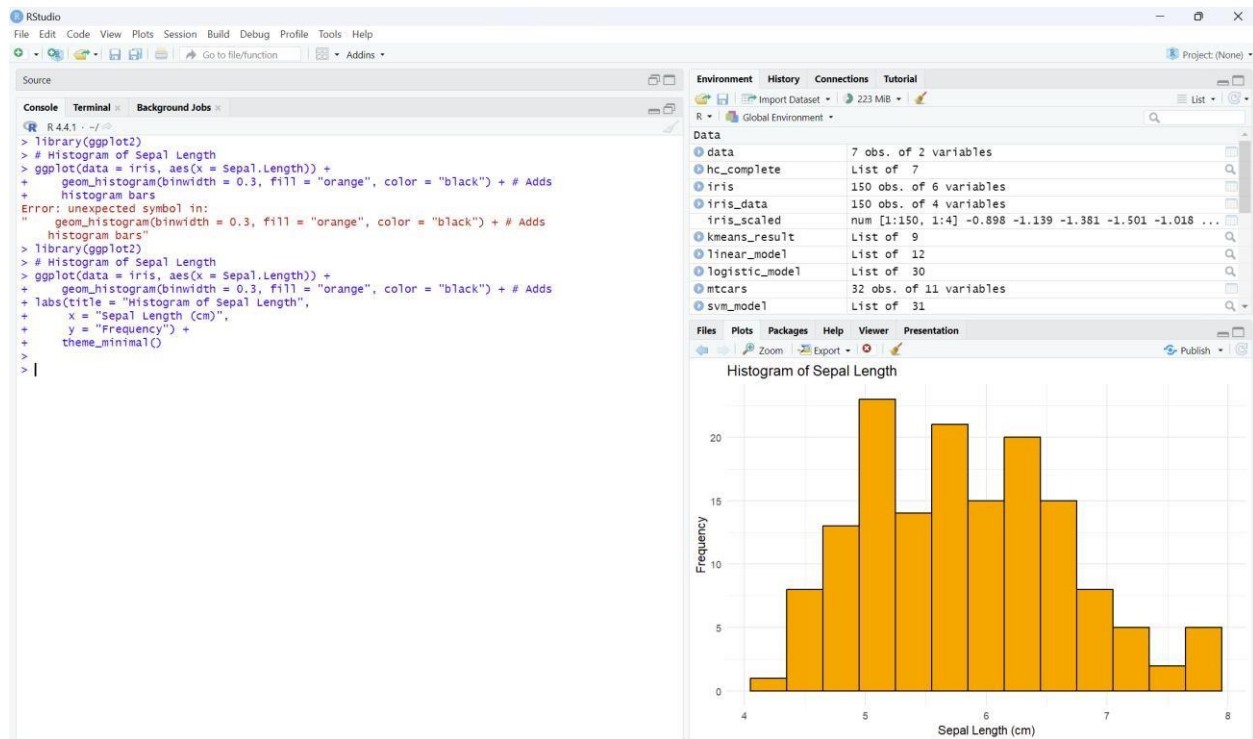
```
# Install ggplot2 (if not already installed)

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()

