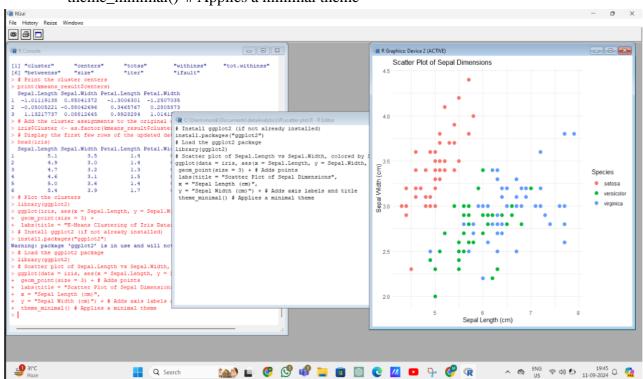
### **Exp:10**

# **VISUALIZE DATA USING ANY PLOTTING FRAMEWORK**

## 1) **SCATTER PLOT**



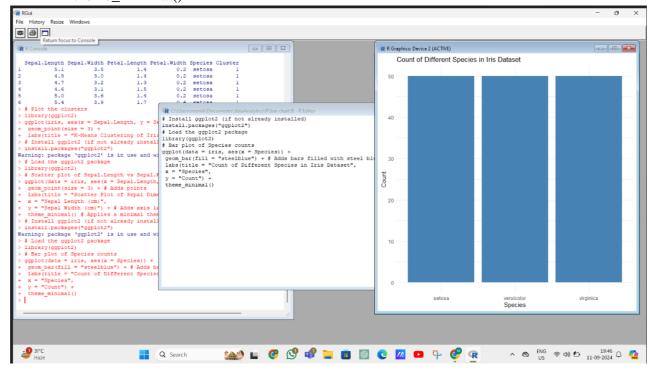
#### 2) BAR CHART

```
# 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()
```

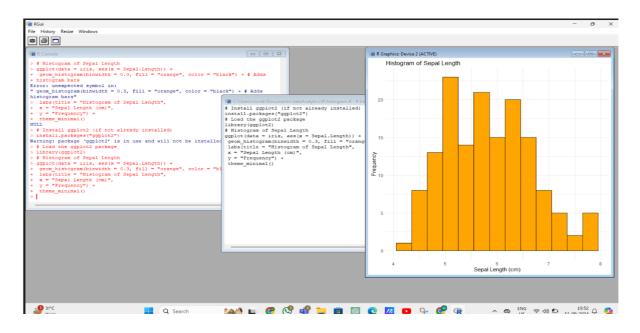


# 3) HISTOGRAM

```
# 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()
```

