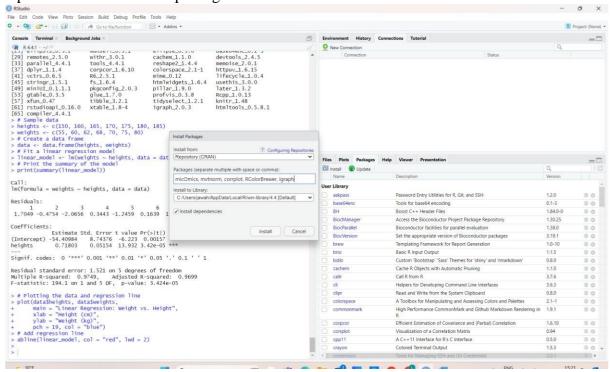
#### Ex 10 VISUALIZE DATA USING ANY PLOTTING FRAMEWORK

#### Aim:

To visualize data using any plotting framework in R Programming.

#### **PROCEDURE:**

- 1. Install R for windows.
- 2. Install R Studio.
- 3. Open R Studio and install packages



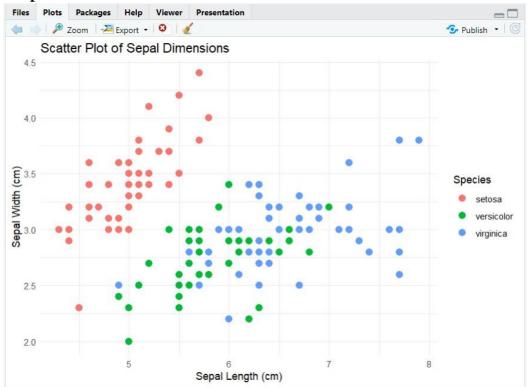
Thus R studio is set up successfully.

theme minimal() # Applies a minimal theme

## 1) SCATTER PLOT

#### **Program:**

### **Output:**



### 2) BAR CHART

### **Program:**

```
# 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:
```

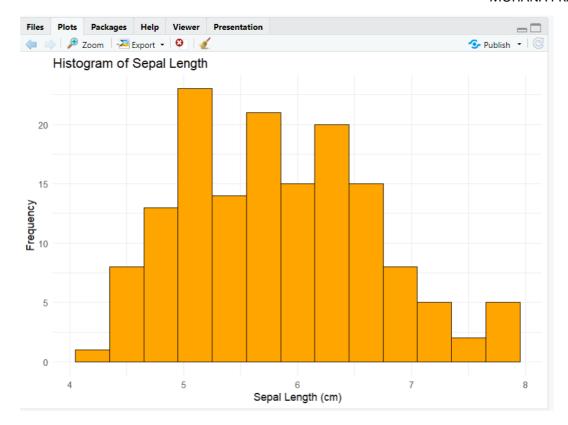


### 3) HISTOGRAM

# Program:

```
# 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:**



### 4)BOX PLOT

# **Program:**



### **Result:**

Thus the program to visualize data using any plotting framework in R Programming is implemented successfully.