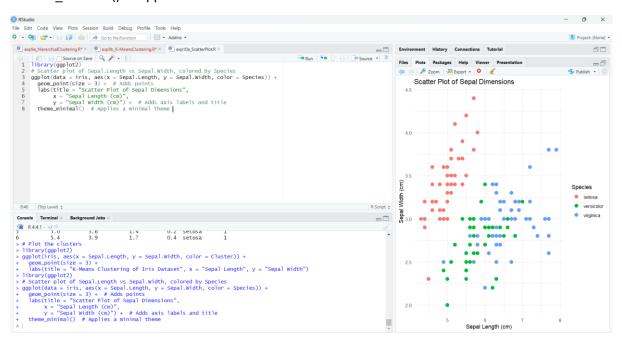
### 10a

```
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)",
```

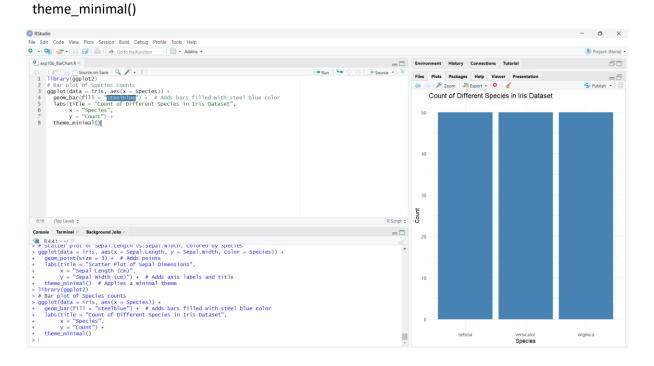
y = "Sepal Width (cm)") + # Adds axis labels and title

theme\_minimal() # Applies a minimal theme



### 10b

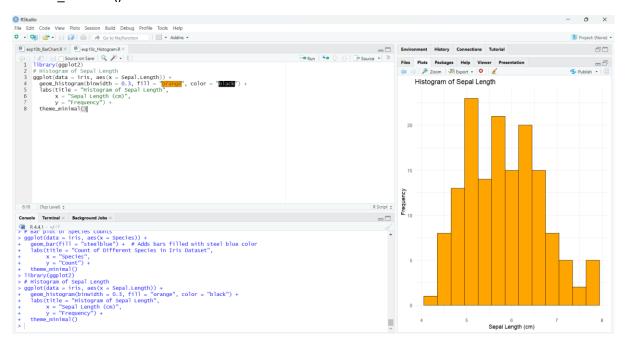
```
library(ggplot2)
# Bar plot of Species counts
ggplot(data = iris, aes(x = Species)) +
  geom_bar(fill = "steelblue") + # Adds bars filled with steel blue color
labs(title = "Count of Different Species in Iris Dataset",
  x = "Species",
  y = "Count") +
```



### **10c**

```
library(ggplot2)
# Histogram of Sepal Length
ggplot(data = iris, aes(x = Sepal.Length)) +
geom_histogram(binwidth = 0.3, fill = "orange", color = "black") +
labs(title = "Histogram of Sepal Length",
    x = "Sepal Length (cm)",
    y = "Frequency") +
```

## theme\_minimal()



### 10d

```
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()

