```
# Show the first 3 rows of the data
df[1:3,]

# Show the first 10 rows if species = versicolor
subset(df, Species == "versicolor")[1:10,]

# What is the standard deviation of petal length of each species?
sd(df$Sepal.Length[df$Species == 'setosa'])
sd(df$Sepal.Length[df$Species == 'versicolor'])
sd(df$Sepal.Length[df$Species == 'virginica'])

# What is the average petal length of each species?
mean(df$Sepal.Length[df$Species == 'setosa'])
mean(df$Sepal.Length[df$Species == 'versicolor'])
mean(df$Sepal.Length[df$Species == 'virginica'])

# What is the average petal width to average sepal width ratio for each species?
#set_length <- mean(df$Sepal.Length[df$Species == 'setosa'])
#set_width <- mean(df$Sepal.Width[df$Species == 'setosa'])
#sprintf(set_length 'The ratio of the Sepal Lenth and Sepal width for the Setosa Species is', set_length)
#sprintf('hello',set_width + 3)

# Create a histrogram of petal length. Include a title and x-label
hist(df$Petal.Length, col='green',main='Histogram of Iris Petal Length', xlab = 'Petal Length')

# Create a box of petal width. Include a title and x-label
boxplot(df$Petal.Width, col='green', main='Boxplot of Iris Petal Width', xlab = 'Petal Width', ylab = 'Petal Width')
```