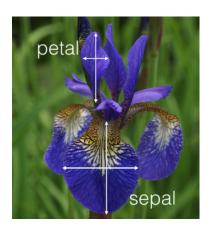
# Tutorial 1



### 1. Interpret the following outputs.

## Question 1.1

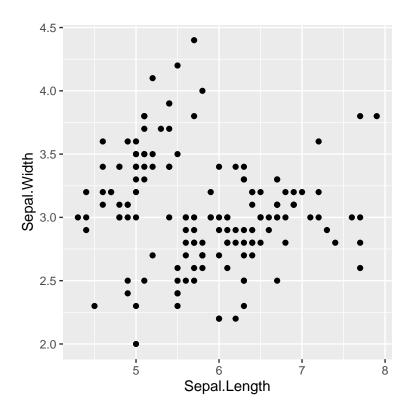


Figure 1: Scatterplot of Sepal Length vs Sepal Width (Pearson's correlation coefficient = -0.12)

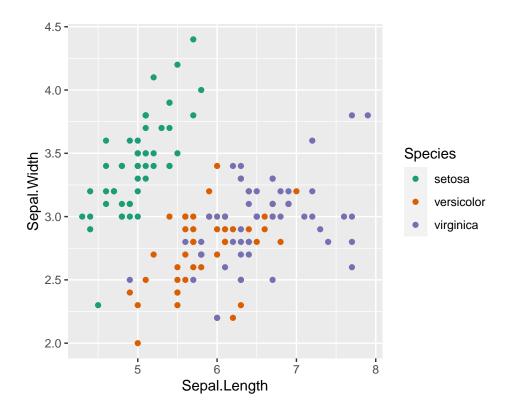


Figure 2: Scatterplot of Sepal Length vs Sepal Width by Species (Pearson's correlation coefficient = -0.12)

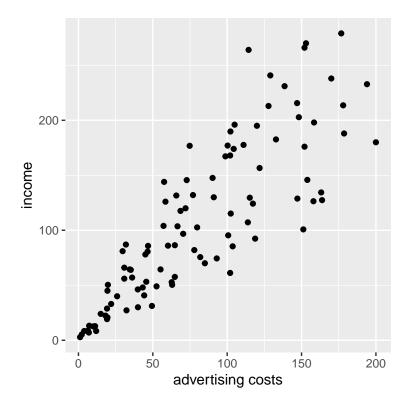


Figure 3: Scatterplot of income vs advertising costs (Pearson's correlation coefficient = 0.803)

For question 1.3, do you think a simple linear regression model (with its basic assumptions) is appropriate for analysing the relationship between the two variables using these data?

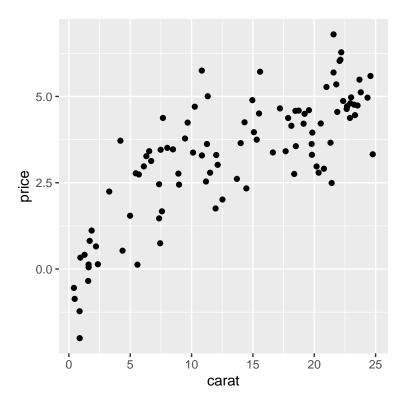
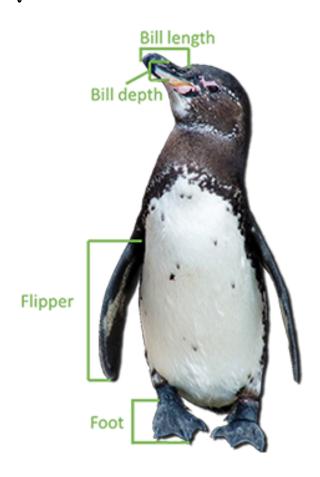


Figure 4: Scatterplot of price vs carat in diamonds (Pearson's correlation coefficient = 0.783)

#### [1] 0.7834839

For question 1.4, do you think a simple linear regression model (with its basic assumptions) is appropriate for analysing the relationship between the two variables using these data?



#### Overview of the dataset

