1. For dataset “Euroweight”:

* Test the hypotheses that the distributions of the weights of coins is the same in different packages using a non-parametric test.

1. For dataset “iris.txt” (read description in file “iris\_description.txt’):

* Test the hypotheses that the correlation between “sepal length” and “sepal width” inside each class of iris is significant. Use Kendall and Spearman correlation coefficients.
* Test the hypotheses that the correlation between “petal length” and “petal width” inside each class of iris is significant. Use Kendall and Spearman correlation coefficients.

1. For dataset “cigarettes.txt”:
   * Test the hypotheses that the correlation between “nicotine” and “weight” is significant. Use Kendall and Spearman correlation coefficients.
   * Test the hypotheses that the correlation between “nicotine” and “carbon monoxide” is significant. Use Kendall and Spearman correlation coefficients.
2. Suppose in a coin tossing, the chance to get a head or tail is 50 %. In a real case, we have 100 coin tossings, and get 48 heads, is our original hypothesis true? [Use binom.test]
3. Did a fair coin produce 8 heads in 10 flips? By “fair” we mean the coin with equal probabilities of appearance of both sides. [Use binom.test]