1. For dataset “Babyboom”:

* Test a weight of babies for normality. First, for the whole dataset, then for group of boys and girls independently.
* Test the hypothesis if the mean of the weight of girls is the same as the weight of boys.
* Test the hypothesis if the variance of the weight of girls is the same as the weight of boys.
* Test the hypothesis if the time between birthtime is distributed by exponential distribution.
* Test the hypothesis if the births per hour for each hour is distributed by Poisson distribution.

1. For dataset “Euroweight”:

* Test the weight of coins for normality (all coins and coins in packages).
* Test the hypotheses that the mean of the weight of coins is the same in different packages.

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

* Test the normality of length of flowers grouping them by the type of iris.
* Test the hypotheses about similarity of distributions of characteristics of flowers of different types.
* Test the hypotheses if the means and variances of the characteristics of flowers of different types are equal.

1. For dataset “height.xls”:

* Test the normality of heights of football and basketball players.
* Test the equity of means and variances of the heights of football and basketball players.
* Test if the distributions of the heights of football and basketball players are the same.

1. For dataset “sugery.xlsx”:

* Test the hypothesis that the operation is successful with probability 0.7. By success we mean that “V right” before operation is less than “V right” after operation and at the same time “V left” before operation is less than “V left” after operation.