1. For dataset “blood.xlsx”:
   * Construct the linear regression model with **X1 =** systolic blood **pressure** as a dependent variable, and two independent variables: **X2 = age** in years, **X3 = weight** in pounds. Verify if the coefficients of linear regression model are significant.
   * Test if the linear regression model is significant in general.
   * Test the homoscedasticity of the model.
   * Test the autocorrelationof residuals.
2. For dataset “Kuiper.xls”:
   * Construct different linear regression models using “step” function with **Y = price** as a dependent variable, and independent variables: **mileage**, **liter**, **cruise**, **sound**, **leather**. Verify if the coefficients of linear regression model are significant. Choose the best model using AIC statistics.
   * Test if the linear regression model is significant in general.
   * Test the homoscedasticity of the model.
   * Test the autocorrelationof residuals.
3. For dataset “cigarettes.txt”:
   * Construct the linear regression model with **y = carbon** monoxide and **x1 = tar**, **x2 = nicotine**, **x3 = weight**. Verify if the coefficients of linear regression model are significant.
   * Test if the linear regression model is significant in general.
   * Test the homoscedasticity of the model.
   * Test the autocorrelationof residuals.