**Home work 4**

You have two files «train.csv» and «test.csv». This is not real data. Files contain data about high school students. You can see five fields: the gender of the student (male / female), the number of points in three subjects (read, write and math) and the student’s graduation with honors (variable hon: yes or no). The last field is the target value.

Your task is to predict whether the student will be awarded with a diploma with honors. Build your model on the data, find the best parameters for your model (the degree of the polynomial and the coefficient of regularization). You can do this using built-in methods, or you can write the necessary functions yourself.

Note that one of the features is a categorical variable (gender). Transform it into a binary one and work like a real variable.