**ASSIGNMENT MULTILEVEL MODELING**

A research is conducted to study factors affecting pupil sense of self-popularity. Pupils with higher level of self-popularity tends to have more confident and thus higher level of engagement in class activities. The attached file contains data from 2000 pupils from 100 classes.

Popularity (dependent variable) is measured by a self-rating scale (using socimetric) that ranges from 0 (very unpopular) to 10 (very popular). There is also popularity of the students according to teacher assessment. The data contains three independent variables: gender ( X: 0 = boy, 1 = girl) and extraversion (indicates how outgoing and social a person is) on the pupil level, as well as teacher experience (Z: in years) on the class level.

Your task is to make a short paper explaining your findings regarding how pupil self-popularity is affected by gender, extraversion, and teacher experience (including their interactions).